

Valley Water

FY 2023-27

Capital Improvement Program

Santa Clara Valley Water District

Fiscal Years 2023-27
Capital Improvement Program

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Valley Water
Clean Water • Healthy Environment • Flood Protection

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Overview

OVERVIEW

The Santa Clara Valley Water District's (Valley Water) Fiscal Year (FY) 2023-27 Five-Year Capital Improvement Program (CIP) is a projection of Valley Water's capital funding for planned capital projects from FY 2022-23 through FY 2026-27. The purpose of the CIP is to document planned Valley Water projects to help integrate Valley Water work with the larger community by aligning Valley Water planning with other local agency planning efforts.

Valley Water's CIP is developed following the guidelines of Government Code (GC) § 65403 which governs the development and annual review of Capital Improvement Programs developed by special districts in the State of California. State law requires that the program be reviewed and updated annually. It also requires circulation of the document to all agencies having land use authority within Valley Water boundaries prior to adoption of the program. This document is intended to provide the information necessary to facilitate planning and construction of water-related infrastructure to meet the needs of Santa Clara County.

SANTA CLARA VALLEY WATER

Mission

The mission of Valley Water is to provide Silicon Valley safe, clean water for a healthy life, environment, and economy.

The CIP is prepared in accordance with the guidelines established by the Government Finance Officers Association (GFOA). Capital projects in this document are defined by both the accounting criteria for capital investment and the California Public Contract Code definition of public works. They exceed $50,000 in cost, have long- term life spans and are generally nonrecurring. They usually fall within one of the following six categories:

1. Acquisition of land for public purpose;
2. Construction of a significant facility, i.e. a flood protection facility, a water treatment facility, or a building;
3. Addition to or expansion of an existing facility;
4. Nonrecurring rehabilitation or major repair to all or part of a facility provided the total cost is more than $50,000;
5. Specific planning, engineering study, or design work related to an individual project which falls within the above categories;
6. Significant one-time investment in tangible goods of any nature, the benefit of which will accrue over several years. Examples include items such as large initial investments or improvements in technology or the purchase of a new telephone system.

The CIP includes several Small Capital Improvement Projects in the various funds. These projects will be ongoing and will be used to fund multiple small projects to undertake repairs, replacements, and minor modifications to existing water utility, watershed or campus facilities. Small Capital Improvements generally meet the following criteria:

1. Project cost is less than $2.5 million (unless otherwise approved by the Board);
2. Project can be completed within 2 fiscal years;
3. Rights-of-way acquisition is not required.

The proposed funding for the Water Supply Small Capital Improvement projects is anticipated to vary each year based on the work identified in the Water Utility Asset Management Plan. The Facility Management, Small Capital Improvements project is funded at a flat rate each year. Unspent funds in these projects will not carry forward from previous years.

There are some miscellaneous capital expenditures incurred by Valley Water that are not captured in the CIP. These capital expenditures include certain components of water purchases, indirect costs to manage and train staff that are fully engaged in capital work, and routine replacement of vehicles and large equipment.

ALIGNMENT WITH ENDS POLICIES

Valley Water plans, manages and carries out capital improvements to comply with the Ends Policies and Executive Limitations established by its Board of Directors. Under Valley Water's Policy Governance Model, Ends Policies describe the outcomes or results to be achieved by Valley Water staff. The Executive Limitations balance the Ends Policies and set limits on staff activities in fulfilling them.

Program plans, master plans and the asset management plan are developed to achieve the results established by the Ends Policies and to further define the goals and objectives of each Ends Policy. The Board either formally approves the plans or provides direction to staff, confirming the goals and objectives. These plans then become the basis for staff to propose and develop individual capital projects. Project ideas that are proposed by Operations staff must be vetted via a feasibility study and then validated to prepare a business case for proceeding with a capital investment. Some high-profile feasibility studies are included in the CIP. Alignment of the CIP with program or master plans provides a direct link to Ends Policies and ensures Valley Water's long-term capital investments are planned and executed according to the Board's priorities. Three Ends Policies directly drive program or master plans and the types of capital improvements described in the CIP:

- Ends Policy E-2 "Valley Water provides a reliable, safe, and affordable water supply for current and future generations in all communities served."
- Ends Policy E-3 "Natural flood protection is provided to reduce risk and improve health and safety for residents, businesses, and visitors, now and into the future."
  - E-3.1 "Maintain flood protection facilities to design levels of protection."
  - E-3.2 "Assist people, businesses, schools, and communities to prepare for, respond to, and recover from flooding through equitable and effective engagement."
  - E-3.3 "Increase the health and safety of residents countywide by reducing community flood risk."
- Ends Policy E-4 "Water resources stewardship protects and enhances ecosystem health."

(See flowchart "CIP Process Alignment with Ends Policies" on page I-6)

CIP PLANNING PROCESS

Valley Water conducts an annual planning process for its CIP. The purpose of the CIP Planning Process is to ensure the capital projects included in the CIP:

- Meet the Board's priorities and contribute to the objectives of Valley Water's various programs;
- Have identified funding for the duration of the projects; and
- Are coordinated with the local jurisdiction's General Plans.

The CIP Planning Process is carried out in accordance with the following Executive Limitations:

- Executive Limitation EL-4.3.1., "A BAO shall produce an annual Rolling Five-Year Capital Improvement Plan with the first year serving as the adopted capital budget and the remaining years in place as a projected capital funding plan."
- Executive Limitation EL-4.4.1., "A BAO shall demonstrate to the Board the planned expenditures for the identified and selected capital projects in the Rolling Five-Year Capital Improvement Plan are aligned with the Board's capital priorities."

The annual CIP Process is the responsibility of the CIP Group comprised of division managers, with the responsibility to initiate or implement capital projects. The detailed process is a documented ISO procedure. It includes the following key steps:

- Management review and approval, to ensure staff proposed projects are aligned with Board policies and approved program plans;

- Validation of projects to ensure there is a business case for doing the project and that a capital investment is the best solution;
- Review of all projects, including continuing and newly proposed projects, to ensure the projects in the CIP reflect Board priorities;
- Financial analysis, to determine the capacity of Valley Water's capital funding sources to fund the proposed capital projects;
- Review of impacts the completed capital project will have on the Operations and Maintenance (O&M) resources.
- Outreach to local jurisdictions with land use authority, within Santa Clara County, to coordinate Valley Water's Capital Improvement Program with their General Plans;
- Board review and direction at appropriate steps, to ensure the CIP reflects Board policies and priorities; and
- Board adoption of the CIP plan.

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February. The Draft CIP serves as a multi-year plan, and together with other long-term planning efforts of Valley Water, is the basis for the budget for the following fiscal year. This Draft CIP plan is also reviewed by local jurisdictions for consistency with their General Plans. While the Draft CIP is being reviewed by the cities and County, the budget is reviewed and finalized. The Board concludes the outreach of the Draft CIP with a public hearing. The first year of the CIP is reconciled with the budget; the Resolution to adopt the CIP and the budget are presented to the Board for approval in May.

Board Direction and CIP Outreach

The Board has many opportunities each year to provide direction on projects contained in the CIP. The CIP is developed in parallel with the budget and the water rates. It is presented to the Board for review and input on multiple occasions throughout the development process. Early in the Validation Process the list of newly proposed projects is presented to the Board so they can provide direction to staff, followed by Board workshops to review the Preliminary CIP to ensure that the document is developed in accordance with Board priorities. The direction received is used to develop the Draft CIP which is reviewed by the Board before staff is authorized to release the document for public review. Following a public hearing, the Board approves the resolution to adopt the Final CIP in May.

The Board CIP Committee meets throughout the year to review and discuss information related to the development and implementation of the CIP and provide input to staff. The Committee provides recommendations on issues ranging from project implementation, to resource utilization and funding sources or distribution. The Committee's recommendations are presented to the Board for direction on incorporation into the CIP document or implementation by staff.

On January 10, 2022, the FY 2023-27 Preliminary CIP project list was reviewed and endorsed by the Board. One new project was added to the FY 2023-27 Preliminary CIP.

The following are highlights of changes from the previous year that have been approved as the basis for the FY 2023-27 CIP:

- To fully fund the Water Supply projects in the FY 2023-27 CIP, the Board approved increases in groundwater production charges for FY 2022-23 of 15% in North County Zone W-2, 5.2% in South County Zone W-5, 10.3% in South County Zone W-7, and 8% in South County Zone W-8.
- The following significant project changes are driving the groundwater production charges:

  – The Anderson Dam Seismic Retrofit Project increased in cost by $588.75 million.

  – The Purified Water Project increased in cost by $135.26 million.

  – The Rinconada Water Treatment Plant Reliability Improvement Project increased in cost by $101.80 million.

– The Rinconada Water Treatment Plant Residuals Remediation/Management Project increased in cost by $11.08 million.

– The Almaden Valley Pipeline Replacement Project increased in cost by $20.57 million.

– The Coyote Pumping Plant ASD Replacement Project increased in cost by $11.77 million.

– The Santa Teresa Water Treatment Plant Filter Media Replacement Project increased in cost by $4.89 million.

– The South County Recycled Water Pipeline Projects increased in cost by $3.11 million.

- The following are highlights of significant project changes under Flood Protection and Water Resources Stewardship:

  – The San Francisco Bay Shoreline Project EIA 11 decreased in cost by $38.77 million.

  – The San Francisquito Creek, SF Bay through Searsville Dam (E5) Project increased in cost by $12.61 million.

  – The Guadalupe River Tasman Drive to I-880 Project increased in cost by $3.26 million.

  – The Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks Project increased in cost by $6.89 million.

  – The Calabazas/San Tomas Aquino Creek Marsh Connection Project, formerly named South Bay Salt Ponds (A5-11) Restoration Project increased in cost by $4.88 million.

  – The Ogier Ponds Separation from Coyote Creek (D4.1b) Project increased in cost by $2.12 million.

- Six projects were completed in the CIP. The RWTP Treated Water Valve Upgrade Project, San Francisquito Creek (SF Bay through Searsville Dam E5) Project, Berryessa Creek (Calaveras, I-680 - Reimbursable) Project, Cunningham Flood Detention Certification Project, Lower Silver Creek (I-680 to Cunningham, Reimbursable Reaches 4-6) Project and Telephone System Voiceover IP Project were all completed in FY22.

Additional information regarding project changes can be found in each chapter overview.

On February 22, 2022, the Board of Directors reviewed and approved for release the FY 2023-27 Draft CIP. One new project was added to the FY 2023-27 Draft CIP: The Security Upgrades and Enhancements Project.

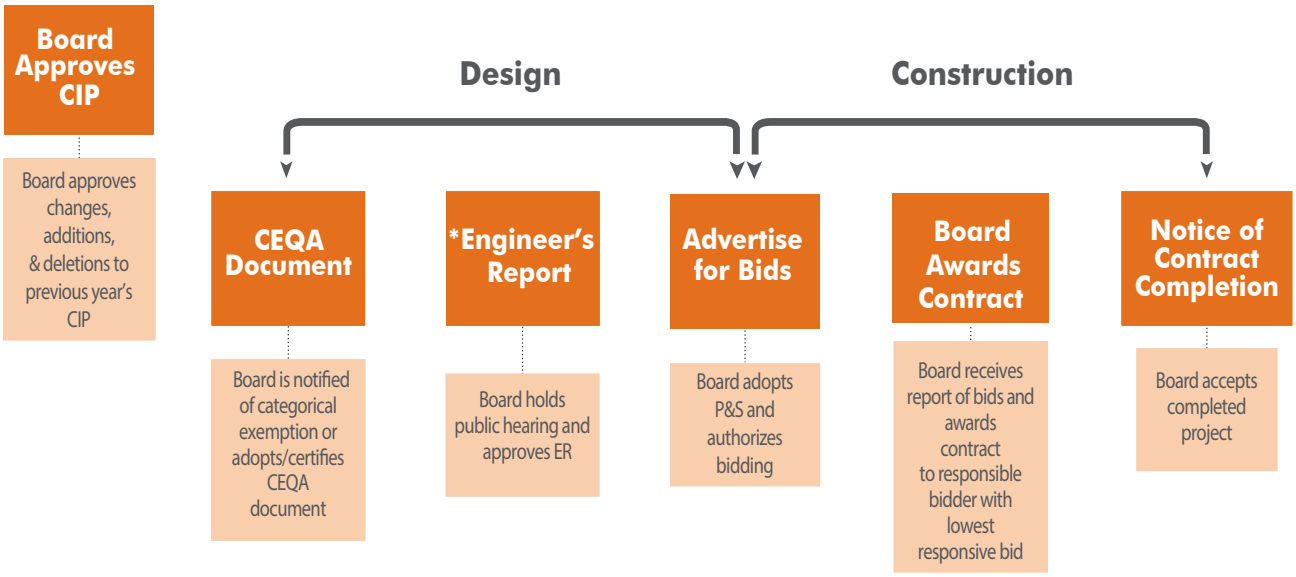
This project will significantly enhance overall security at Valley Water facilities through technological and physical upgrades and enhancements.



Overview

Projects in the CIP are typically divided up into planning, design and construction phases. The Board may determine not to implement a project based on various considerations, such as financial constraints, environmental impacts, Operations and Maintenance, or community desire during a project's planning or design phases. The Board has various opportunities to provide direction and approval of capital projects as shown in the graphic below.

OPPORTUNITIES FOR BOARD DIRECTION ON CAPITAL PROJECTS



** Board approval of the Engineer's Report is required only on projects with zone funding.*

CIP PROCESS ALIGNMENT WITH ENDS POLICIES



FISCAL YEAR 2023-27 CIP SUMMARY

The recommended CIP for FY 2023-27 includes 64 priority projects to implement the goals and objectives of Valley Water's program plans and master plans. These projects are grouped into five types of improvements:

- *Water Supply Capital Improvements*
  29 projects contributing to Ends Policy E-2
- *Flood Protection Capital Improvements*
  16 projects contributing to Ends Policy E-3
- *Water Resources Stewardship Capital Improvements*
  11 projects contributing to Ends Policy E-4
- *Buildings and Grounds Capital Improvements*
  3 projects supporting Valley Water efforts to achieve the Ends Policies
- *Information Technology Capital Improvements*
  5 projects supporting Valley Water efforts to achieve the Ends Policies

Each of the 64 projects in the CIP has an identified funding source based on the type of improvement or function of the project.

The principal sources of revenue for Valley Water are: property taxes; a special parcel tax, which funds the Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program); and water production charges for use of groundwater, treated water, and surface water. These revenues are organized into eight funds. Seven of the eight funds have a specific purpose and only finance the operational and capital expenditures related to that purpose. In 2008, the Board decided to combine the individual watershed funds into a county-wide watershed and stream stewardship fund to send the message that the watershed activities are managed for the benefit of the County. This also streamlines most tracking and accounting activities for staff. Valley Water continues to receive a small amount of revenue from benefit assessments that were approved by voters in the 1980s and 1990s. These funds are dedicated to specific watersheds and the accounting practices to ensure that they are spent and accounted for appropriately have been kept in place. As shown in the chart below, five of the eight funds are used to finance the five types of capital improvements in the CIP.

Valley Water aggressively pursues external funding to supplement its principal revenue when practical. For a complete listing of grants and partnerships, (see Appendix A).

A number of Valley Water projects are receiving substantial State funding through grants:

- $25 million for Lower Silver Creek and Cunningham Flood Detention from DWR;
- $496 million for Pacheco Reservoir from the California Water Commission;
- $29.4 million for Upper Berryessa, Lower Berryessa, and Lower Penitencia from DWR; and
- $61.5 million for South San Francisco Bay Shoreline Phase 1 Project from the San Francisco Bay Restoration Authority.

VALLEY WATER PRIORITIES	Valley Water Funds				
Type of Improvement	Water Utility Enterprise Fund	Watershed Stream Stewardship Fund	General Fund	Safe, Clean Water Fund	Information Technology Fund
Water Supply	●			●	
Flood Protection		●		●	
Water Resources Stewardship	●	●		●	
Buildings and Grounds			●		
Information Technology	●				●

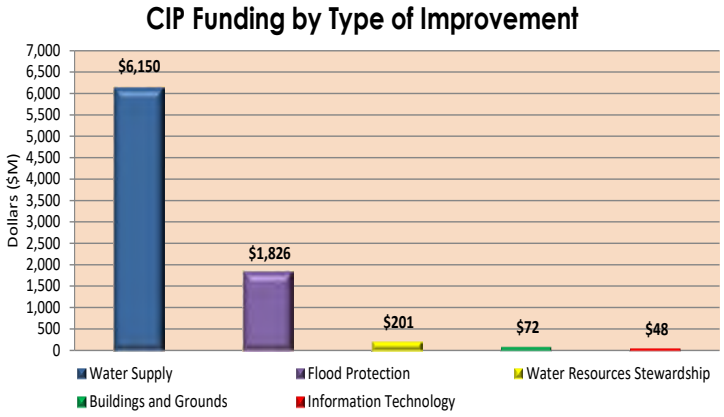
This chart identifies which types of improvement are associated with each of Valley Water's five capital funds.

Overview

The estimated total funding required to implement the 64 projects defined in the CIP is $8.773 billion. Valley Water has been and continues to be successful in leveraging funding for its capital projects through partnerships with federal, state, and local agencies. Of the $8.773 billion total funding, $1.281 billion is expected from Valley Water's various partners, such as the U.S. Army Corps of Engineers (USACE), and $7.492 billion from Valley Water. A list of projects that are funded cooperatively with Valley Water's partners is summarized in Appendix A. Funding from partners for the cooperative capital projects generally come in two ways:

- Funds that are made available by the partners when needed (cost-sharing agreements or in-kind services), or
- Funds that are reimbursed by the partners after Valley Water advances the needed funds.

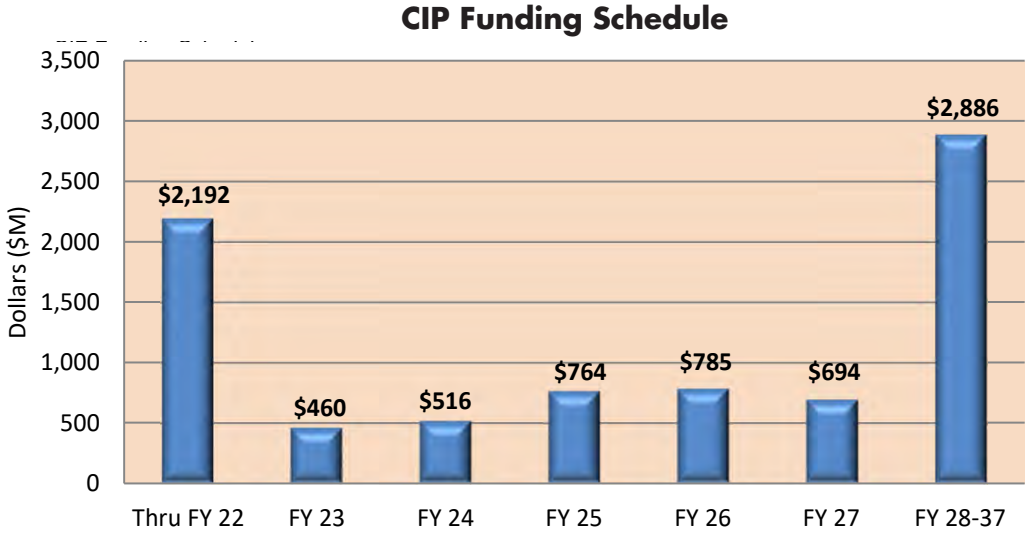
Of the $1.281 billion that is expected from Valley Water's partners, $805 million is advanced by Valley Water and reimbursed later. This $805 million is included in the CIP, and increases Valley Water's total funding requirement from $7.492 billion to $8.297 billion, to ensure that Valley Water has adequate funding to advance the reimbursement.



The chart above shows the distribution by type of improvement, of the $8.297 billion total CIP funding as planned in the FY 2023-27 CIP.

The chart above shows how the $8.297 billion to implement the 64 projects is allocated to each of the five types of improvements.

Of the $8.297 billion in total funding for the 64 projects identified in the CIP, the Board has appropriated $2.192 billion in prior years (through June 30, 2022, the end of fiscal year 2021-22). This year's CIP process identified additional funding needs of $6.105 billion to complete the projects in the CIP, with $460 million allocated in fiscal year 2022-23 and a total of $5.645 billion proposed for future years. The table shown on page I-8 breaks down the fiscal year total by the five types of improvement and by applicable funding sources.



The chart above shows how the $8.297 billion is distributed by fiscal year.

CIP Funding Schedule by Type of Improvement and Funding Sources ($K)

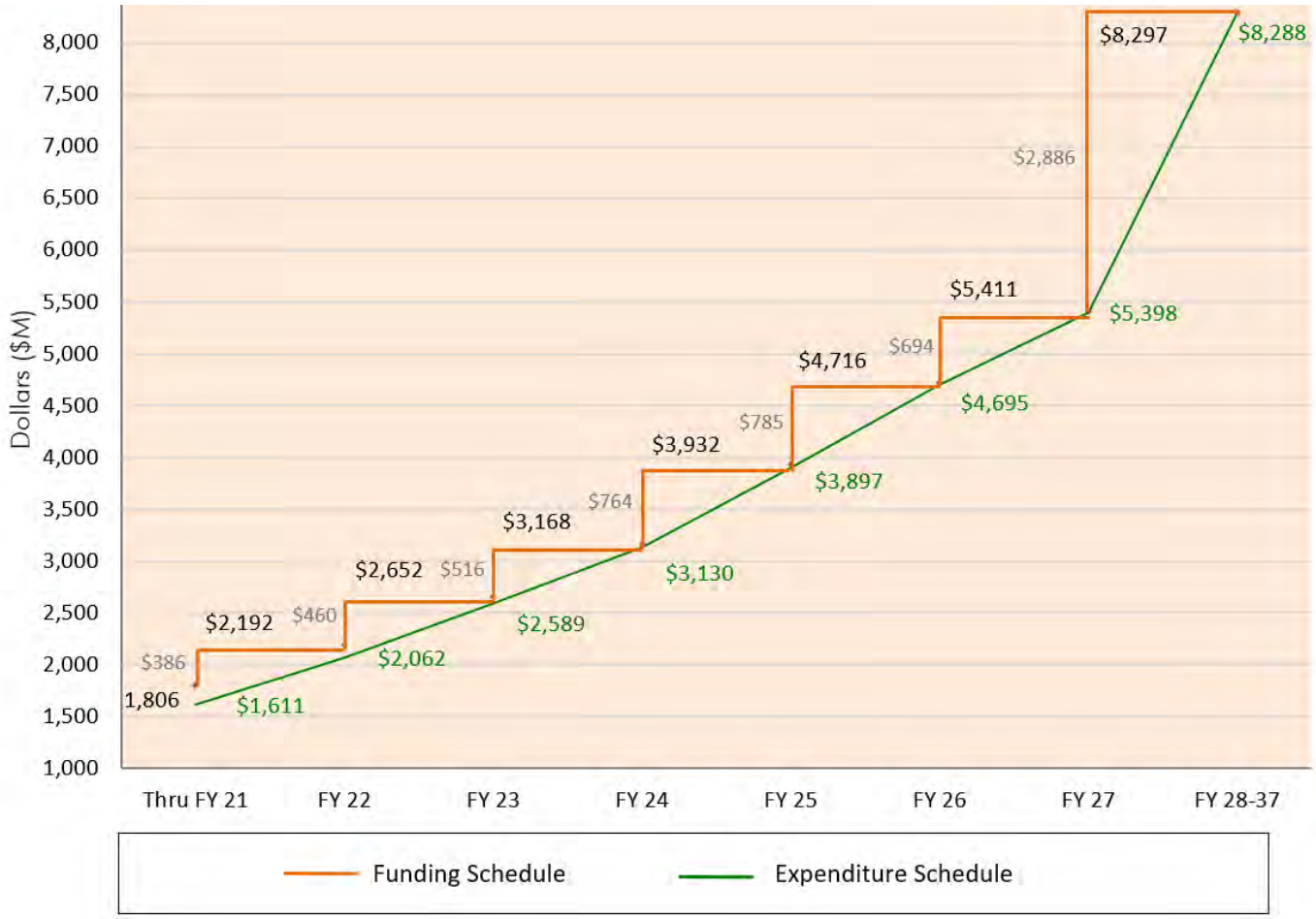
	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
WATER SUPPLY										
Water Utility Enterprise Fund	742,240	217,053	39,218	325,022	349,851	657,471	687,294	588,776	2,565,441	6,133,148
Safe, Clean Water and Natural Flood Protection Fund	2,278	344	-	1,220	3,458	3,526	3,370	2,155	200	16,551
Water Supply Total	744,518	217,397	39,218	326,242	353,309	660,997	690,664	590,931	2,565,641	6,149,699
FLOOD PROTECTION										
Watershed Stream Stewardship Fund	405,651	59,280	12,856	33,079	37,066	19,971	51,920	46,939	177,451	831,357
Safe, Clean Water and Natural Flood Protection Fund	596,832	82,622	70,050	65,688	88,359	63,505	23,426	33,222	41,468	995,122
Flood Protection Total	1,002,483	141,902	82,906	98,767	125,425	83,476	75,346	80,161	218,919	1,826,479
WATER RESOURCES STEWARDSHIP										
Water Utility Enterprise Fund	765	-	-	-	-	3,710	4,843	2,323	41,394	53,035
Watershed Stream Stewardship Fund	9,436	2,015	364	751	1,610	2,315	4,755	3,706	24,024	48,612
Safe, Clean Water and Natural Flood Protection Fund	19,914	17,591	4,222	25,226	21,066	4,479	1,303	4,146	5,791	99,516
Mitigation Total	30,115	19,606	4,586	25,977	22,676	10,504	10,901	10,175	71,209	201,163
BUILDINGS AND GROUNDS										
General Fund	20	6,000	-	6,394	10,689	6,620	6,734	11,025	24,216	71,698
Buildings and Grounds Total	20	6,000	-	6,394	10,689	6,620	6,734	11,025	24,216	71,698
INFORMATION TECHNOLOGY										
Water Utility Enterprise Fund	2,908	204	-	1,274	2,456	1,000	274	130	3,009	11,255
Information Technology Fund	25,721	1,145	819	1,471	1,261	1,144	741	2,015	3,236	36,734
Information Technology Total	28,629	1,349	819	2,745	3,717	2,144	1,015	2,145	6,245	47,989
TOTAL	1,805,765	386,254	127,529	460,125	515,816	763,741	784,660	694,437	2,886,230	8,297,028
CUMULATIVE TOTAL	1,805,765	2,192,019	382,587	2,652,144	3,167,960	3,931,701	4,716,361	5,410,798	8,297,028	

FY 2021-22 Funds to be reappropriated

Overview

As shown in the table, CIP Funding Schedule by Type of Improvement and Funding Sources (on the previous page): approximately $128 million of the already appropriated $2.192 billion is not spent and is reappropriated to FY 2022-23 for continued use in those same projects in amounts consistent with the project expenditure schedule for FY 2022-23. The following chart explains the relationship between the CIP funding schedule and expenditure schedule.

CIP Funding Schedule vs. CIP Expenditure Schedule



Water Supply

Water Supply Capital Improvements

WATER SUPPLY OVERVIEW

Valley Water manages and operates a complex and integrated water supply infrastructure, including storage, transmission, treatment, and recycled water facilities, to meet the Board's Ends Policy E–2, "Valley Water provides a reliable, safe, and affordable water supply for current and future generations in all communities served."

Storage Facilities

- 10 surface reservoirs
- 393 acres of recharge ponds
- 76 miles of in-stream recharge
- Ground water basins

Transmission Facilities

- 142 miles of pipelines
- 3 pump stations

Treatment Facilities

- 3 treatment plants

Recycled Water Facilities

- Silicon Valley Advanced Water Purification Center
- South County Recycled Water Distribution System

Planning, design and construction of the above facilities took decades of effort. Beginning in the 1930s, reservoirs and recharge ponds were built to halt depletion of the ground water basin and subsidence, followed by pipelines and treatment plants to bring in state and federal water to meet growing water demands in the County.

In the early 1990s, Valley Water embarked on new and challenging capital improvements to upgrade its three drinking water treatment plants in order to meet new Environmental Protection Agency rules for improved water quality required by 1996 amendments to the Safe Drinking Water Act. Fifteen years of effort and capital funding brought the upgrades at Penitencia and Santa Teresa Water Treatment Plants to completion. Delivery of ozonated water produced at these two treatment plants began in 2006.

The Rinconada Water Treatment Plant (RWTP) was built in the late 1960s and is reaching the end of its useful life. A number of projects to upgrade and improve operations have been completed. The RWTP Reliability Improvement Project will add raw water ozonation, construct new flocculation and plate settler clarification, and dual media filtration facilities. It will also increase plant capacity from 80 to 100 million gallons per day. Construction of this Project began in the summer of 2015. Phases 1 and 2 were completed in early 2021, and repackaging efforts for Phases 3 through 6 are currently underway. Design is scheduled to be completed in FY23 and construction will begin thereafter.

With a significant portion of the Water Supply infrastructure approaching 50 to 60 years of age, maintaining and upgrading the existing infrastructure to ensure each facility functions as intended for its useful life became the focus of the Water Supply CIP in recent years.

Valley Water owns and operates ten dams. While these dams provide water supply, flood management, recreation, and environmental flow benefits, there are consequences and costs for dam ownership. Knowledge of seismic stability design and construction was very rudimentary during the design and construction of Valley Water dams in the 1930s and 50s. Both liquefaction of dam embankments and foundations and embankment stability must be addressed for seismic stability. Several of Valley Water's reservoirs have had operating restrictions imposed by the Department of Safety of Dams (DSOD) while an engineering analysis of how Valley Water's dams would perform under a major seismic event is completed and appropriate corrective actions are implemented.

On November 26, 2010, the Board was informed that Anderson Dam will require a seismic retrofit and the operating restriction was increased to 45 feet below the crest of the dam. Since this briefing, a consultant has determined that a magnitude 7.2 Maximum Credible Earthquake on nearby Calaveras Fault could cause a deformation (slumping) of the dam crest by 25 feet. The Anderson Dam Seismic Retrofit Project was initiated in January 2011. While work on the project was underway, Valley Water received a directive on February 20, 2020 from the Federal Energy Regulatory

Water Supply Capital Improvements

Commission to implement interim risk reduction measures, including the Anderson Dam Tunnel Project to construct a diversion to augment the existing outlet.

Valley Water completed a seismic stability evaluation of Almaden, Calero, and Guadalupe Dams in late 2010. Almaden Dam was found to be seismically stable; however both Calero and Guadalupe Dams will require seismic retrofitting to meet DSOD performance criteria. A project was initiated in fiscal year 2013 to address the Calero and Guadalupe Dams retrofit needs. A separate capital project to address outlet and spillway improvements at Almaden Dam is continuing. Seismic stability evaluations were conducted at Lenihan and Stevens Creek Dams. Both were found to be seismically stable.

In April 2017, the Governor of California ordered detailed evaluations of large spillway structures at all high-hazard dams. Spillway evaluations are required on 9 of Valley Water's 10 dams. The spillway evaluation for 7 dams have been incorporated into existing projects and a separate contract for the spillway evaluation of the Lenihan and Stevens Creek dams has been formed.

Valley Water is partnering with Pacheco Pass Water District and San Benito County Water District for the Pacheco Reservoir Expansion Project. This Project will encompass the acquisition and expansion of this reservoir from 6,000 AF to 140,000 AF and will provide water quality benefits, operational flexibility, emergency storage, flood protection, and ecosystem benefits. On July 24, 2018, the California Water Commission awarded $484.55 million to support the project, including an early funding award of $24.2 million. In February 2021, the maximum conditional eligibility determination was increased to $496.7 million to reflect an inflation adjustment of 1%.

The key driver for Water Supply projects is the Water Supply Master Plan, which includes three strategies to ensure sustainability: secure water supply; expand water supply through water conservation, stormwater capture and potable reuse projects; and optimize existing infrastructure.

Major Capital Improvements Identified in the CIP:

Storage:

- Almaden Dam Improvements
- Anderson Dam Seismic Retrofit
- Calero Dam Seismic Retrofit
- Guadalupe Dam Seismic Retrofit
- Pacheco Reservoir Expansion
- Dam Seismic Stability Evaluation
- Coyote Pumping Plant ASD Replacement
- Coyote Warehouse
- Small Capital Improvements, San Felipe Reaches 1-3

Transmission:

- 10-Year Pipeline Rehabilitation
- FAHCE Implementation
- Vasona Pumping Station Upgrade
- Almaden Valley Pipeline Replacement
- Distribution System Master Plan Implementation
- IRP2 Additional Line Valves (A3)
- Pacheco/Santa Clara Conduit Right of Way Acquisition
- SCADA Master Plan Implementation
- Small Capital Improvements, Raw Water Transmission
- Small Capital Improvements, Treated Water Transmission
- Treated Water Isolation Valves

Water Treatment Plants (WTP):

- Penitencia WTP Residuals Management
- Rinconada WTP Residuals Remediation
- Rinconada WTP Reliability Improvement
- Santa Teresa WTP Filter Media Replacement
- WTP Electrical Improvement
- Small Capital Improvements, Water Treatment
- WTP Master Plan Implementation

Recycled Water:

- Purified Water Project
- South County Recycled Water Pipeline
- Land Rights - South County Recycled Water Pipeline

Water Supply Capital Improvements

CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February.

The Board then authorizes release of the Draft CIP to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the Final CIP in May.

Based on the feedback from the FY 2006-07 CIP and Board direction, a concerted effort was made to develop a multi-year water charge structure that would support the priority work of the water utility business. Staff analyzed both immediate requirements and anticipated future needs to support operations and the continued appropriations for capital investment needed to maintain infrastructure and comply with water quality regulations. Each year staff reviews Board priorities, the financial needs of the Water Utility Enterprise Fund, current political and economic factors and updates the multi-year structure. The rate structure for the first year is recommended to the Board for adoption during the annual rate setting process.

While Valley Water has one Water Utility Fund, Valley Water has multiple zones of benefit for the purposes of setting groundwater production charges. The North County Zone is very different from the South County Zone in that the water infrastructure is substantially separate and distinct with an entirely different cost of providing service. For example, the north zone overlays the Santa Clara groundwater subbasin and is much more densely populated, requiring a large amount of imported water from outside the county to provide a reliable water supply. To receive, filter and distribute the imported water, Valley Water chose to build three water treatment plants and a network of raw water and treated water distribution pipelines many decades ago. Conversely, the South County overlays the Coyote Valley (southern Santa Clara subbasin) and the Llagas groundwater subbasins and is more sparsely populated. South County communities rely almost entirely on groundwater, with small amounts of raw surface water and recycled water. A small amount of recycled water is served in the Gilroy area. No treated water is served in South County, so water utility infrastructure primarily supports the storage and distribution of local and imported surface water for groundwater recharge.

The financial analysis of the Water Utility Enterprise Fund, the funding source for the water supply capital improvements, is conducted in conjunction with the groundwater production charge process.

After reviewing a number of scenarios, on May 10, 2022, Valley Water's Board of Directors approved and adopted staff-proposed changes in the municipal and industrial (M&I) groundwater production charges for FY 2022-23 of 15% in North County Zone W-2, 5.2% in South County Zone W-5, 10.3% in South County Zone W-7, and 8% for South County Zone W-8.

Significant Project Updates From Prior Year

Listed below are the changes to projects from the FY 2022-26 Adopted CIP:

- The Pacheco Reservoir Expansion Project has decreased in cost by $58.18 million due to an update to the phase costs, therefore inflation adjustments reduced the overall inflated total project cost.

- The Anderson Dam Seismic Retrofit Project has increased in cost by $588.75 million due to the Federal Energy Regulatory Commission (FERC) projects scope updates in the Anderson Dam Project. In accordance with Federal regulations, this project now includes the construction of five subprojects as part of the Federal Energy Regulatory Commission Order Compliance Project (FOCP). The subprojects are listed on the Anderson Dam Seismic Retrofit Project page, II-9 and II-10.

- The Purified Water Project has increased in cost by $135.26 million. An increase of $113.18 million is due to the addition of a second option to transfer treated effluent from the City of Palo Alto and the additional preliminary investigations to include this

Water Supply Capital Improvements

effluent transfer option. An increase of $22.08 million is due to the addition of a program management resource consultant to assist staff through the entire procurement, design, and construction of the Project. This program is planned to be delivered via a Public-Private Partnership (P3).

- The Rinconada Water Treatment Plant Reliability Improvement Project has increased in cost by $101.86 million due to the increase in construction costs to complete Phases 3-6.

- The Rinconada Water Treatment Plant Residuals Remediation/Management Project has increased in cost by $11.08 million due to schedule changes and to accommodate equipment rental. Costs for construction have increased due to a higher-than-estimated contract bid.

- The Almaden Valley Pipeline Project has increased in cost by $20.57 million to accommodate the future fiscal year expenditures at the end of the CIP's 15-year projection. The 21-year total Project plan was initiated in FY21, and the CIP only provides a 15-year projection. Each CIP cycle will add the upcoming fiscal year expenditure plan until all 21 years of the total Project plan are incorporated into the CIP.

- The Coyote Pumping Plant ASD Replacement Project has increased in cost by $11.77 million due to the Project schedule update to accommodate the Project delivery using the progressive design-build method and increases to the construction cost estimates based upon current market conditions, including supply chain disruptions.

- The South County Recycled Water Pipeline Project has increased in cost by a total of $3.11 million due to changes in the Project scope and schedule. The Project schedule was extended by two years due to NEPA clearance delays and delays in the project advertisement for construction bids. The Project scope changed due to a switch from high density polyethylene pipe to welded steel pipe and additional real estate costs.

- The Santa Teresa Water Treatment Plant Filter Media Replacement Project increased in cost by $4.23 million due to inflation in the construction sector associated with increases in costs for equipment and materials.

The majority of capital projects included in the Five-Year CIP are related to asset management, which replaces aging equipment and facilities, infrastructure reliability, which protects the county's baseline water supply, or Advanced Purified Water, which produces a drought-resilient source of water.

Valley Water is currently engaged in several critical studies related to understanding the conditions of various water supply facilities and meeting future water supply needs of the county. This effort included updating the Water Supply Master Plan, which was approved by the Board on November 20, 2019.



Water Supply Capital Improvements

The following table is a project funding schedule for water supply capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2021-22.

Water Supply Capital Improvements

Project Number	PROJECT NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY27-36	TOTAL
	STORAGE FACILITY										
91854001	Almaden Dam Improvements	14,772	-	558	-	-	-	271	436	49,234	64,713
91864005s	Anderson Dam Seismic Retrofit (C1)	107,049	127,368	1	167,478	122,269	95,434	88,877	89,632	438,028	1,236,135
91084020s	Calero and Guadalupe Dams Seismic Retrofits	34,712	1,970	4,338	-	1,038	12,806	25,538	25,699	152,329	254,092
91234002	Coyote Pumping Plant ASD Replacement	4,368	-	382	9,294	12,532	1,068	78	-	-	27,340
91234011	Coyote Warehouse	9,645	73	-	126	-	-	-	-	-	9,844
91084019	Dam Seismic Stability Evaluation	22,588	65	-	417	437	5,650	417	436	932	30,942
91214010s	Small Capital Improvements, San Felipe Reach 1-3	n/a	4,517	-	6,181	2,251	996	107	3,778	64,589	82,419
91954002	Pacheco Reservoir Expansion Project (A1)	80,276	(8,450)	410	30,794	43,901	267,922	320,145	268,295	1,458,769	2,461,652
	TRANSMISSION FACILITY										
95084002	10-Year Pipeline Rehabilitation (FY18-FY27)	72,234	16,243	4,151	14,176	20,782	8,754	7,683	181	-	140,053
92304001	Almaden Valley Pipeline Replacement Project	668	841	915	79	1,566	2,659	2,164	2,915	99,707	110,599
95044001	Distribution System Master Plan Implementation	2,383	2,905	-	730	2,020	919	-	-	-	8,957
92C40357	FAHCE Implementation	-	-	-	-	-	4,739	4,379	14,691	121,299	145,108
26764001	IRP2 Additional Line Valves (A3)	2,278	344	-	1,220	3,458	3,526	3,370	2,155	200	16,551
92144001	Pacheco/Santa Clara Conduit Right of Way Acquisition	3,334	1,659	1,453	847	211	-	-	-	-	6,051
95044002	SCADA Master Plan Implementation	1,365	2,384	1,255	1,571	1,150	-	-	-	-	6,470
92764009	Small Capital Improvements, Raw Water Transmission	n/a	2,572	-	1,010	1,112	4,607	239	-	3,408	12,948
94764006	Small Capital Improvements, Treated Water Transmission	n/a	131	-	297	302	114	50	-	306	1,200
94084007	Treated Water Isolation Valves	1,271	-	254	-	496	2,110	1,922	599	2,104	8,502
92264001	Vasona Pump Station Upgrade	3,113	715	1,465	922	16,963	555	-	-	-	22,268
	TREATMENT FACILITY										
93234044	PWTP Residuals Management	683	1,593	-	1,857	1,555	9,802	18,254	9,300	-	43,044
93294051s	RWTP Residuals Remediation	56,484	5,351	5,501	18,397	191	-	-	-	-	80,423
93294057	RWTP Reliability Improvement	251,869	20,617	8,304	6,036	54,277	57,712	56,752	14,476	-	461,739
93294056	RWTP Treated Water Valves Upgrade	8,626	4	-	-	-	-	-	-	-	8,630
93764004	Small Capital Improvements, Water Treatment	-	10,911	-	4,509	8,059	3,204	3,403	5,316	19,331	54,733
93284013	STWTP Filter Media Replacement Project	647	2,813	1,078	5,593	5,280	-	-	-	-	14,333
93084004	Water Treatment Plant Electrical Improvement Project	642	884	-	2,412	5,695	1,993	-	-	-	11,626
93044001	WTP Master Plan Implementation	1,394	3,278	-	732	3,197	856	-	-	-	9,457
	RECYCLED WATER FACILITY										
91304001s	Expedited Purified Water Program (EPWP)	27,109	2,949	-	40,998	40,997	175,571	157,015	153,022	155,405	753,066
91094001	Land Rights - South County Recycled Water PL	203	350	-	3,260	3,145	-	-	-	-	6,958
91094007s	South County Recycled Water Pipeline	36,805	15,310	9,153	7,306	425	-	-	-	-	59,846
	TOTAL	744,518	217,397	39,218	326,242	353,309	660,997	690,664	590,931	2,565,641	6,149,699

FY 2021-22 Funds to be reappropriated

Water Supply Capital Improvements

The following table shows funding requirements from each funding source for water supply capital.

Water Supply - Funding Source ($K)

Fund Number	FUND NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
61	Water Utility Enterprise Fund	742,240	217,053	39,218	325,022	349,851	657,471	687,294	588,776	2,565,441	6,133,148
26	Safe, Clean Water and Natural Flood Protection Fund	2,278	344	0	1,220	3,458	3,526	3,370	2,155	200	16,551
	TOTAL	744,518	217,397	39,218	326,242	353,309	660,997	690,664	590,931	2,565,641	6,149,699

FY 2021-22 Funds to be reappropriated

Storage Facilities



Storage Facilities

- 10 Surface Reservoirs
- 393 Acres of Recharge Ponds
- 76 Miles of In-stream Recharge
- 8 Capital Projects
- Groundwater Basins

Project	**Almaden Dam Improvements**
Program	Water Supply – Storage
Project No.	91854001
Contact	Christopher Hakes chakes@valleywater.org



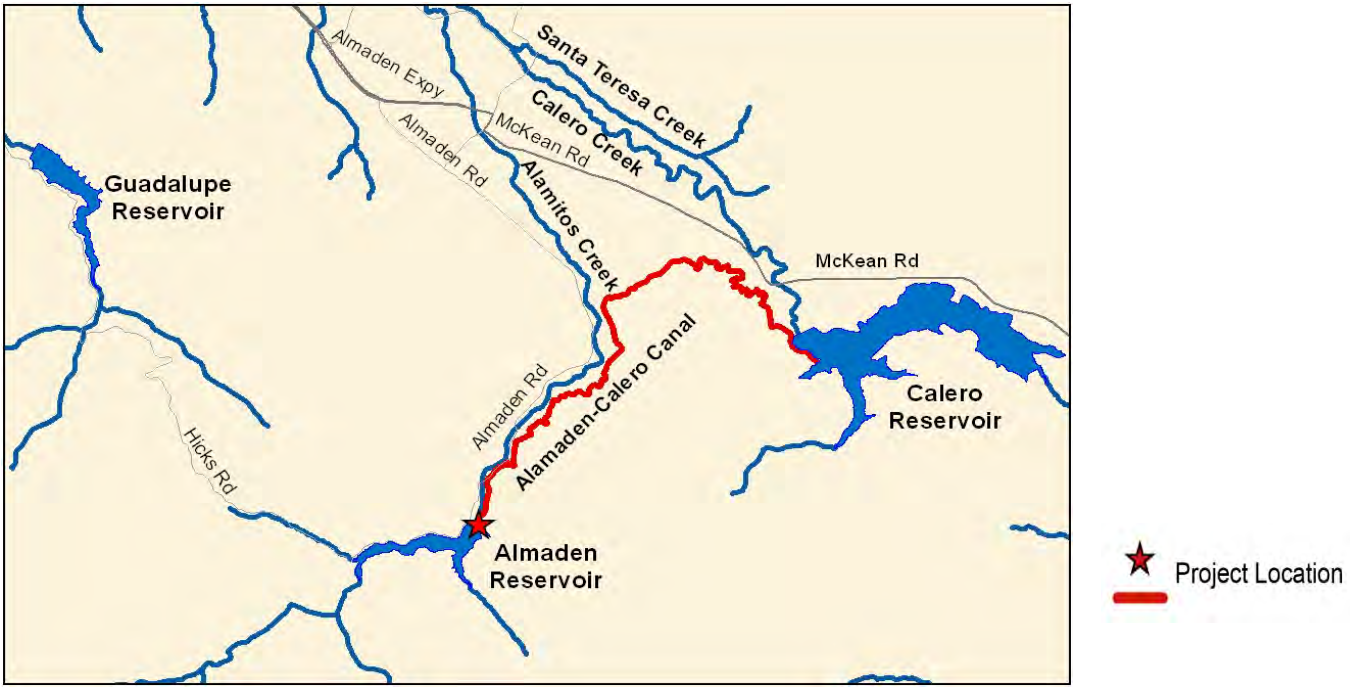
Aerial view of Almaden Dam and spillway, and part of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Almaden Dam outlet works to accomplish the following objectives:

- Modify or construct a new intake structure, capable of releasing 246 cubic feet-per-second of water without flushing of sediments through the outlet works.
- Correct existing problems with the outlet energy dissipation structure, piping and valves.
- Restore operational capacity to the Almaden-Calero Canal and stabilize and improve maintenance access.

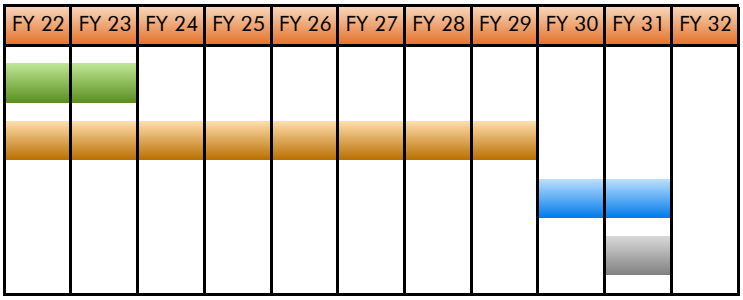
PROJECT LOCATION



SCHEDULE & STATUS

July 1995 to June 2031

Phase	Cost
Plan	5,415
Design	4,924
Construct	37,633
Closeout	4
	53,615



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
91854001-Almaden Dam Improvements	13,964	250	52	50	303	316	350	38,330	53,615
with inflation	13,964	250	52	55	346	377	436	49,233	64,713

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
91854001-Almaden Dam Improvements	14,772	0	558	0	0	0	271	436	49,233	64,713

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	64,713
Other Funding Source	0
Total	**64,713**

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $2,000 per year, beginning in FY31. Manually flushing the control valves during the winter months to remove silt will no longer be required.

USEFUL LIFE: 50+ Years

Project	**Anderson Dam Seismic Retrofit (C1)**
Program	Water Supply – Storage
Project No.	91864005s
Contact	Christopher Hakes chakes@valleywater.org



Aerial view of Anderson Dam, spillway, and part of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs seismic retrofit or replacement of outlet works at Anderson Dam, pending completion of a field investigation that will determine whether the Coyote Fault is seismically active. Seismic stability improvements will accomplish the following objectives:

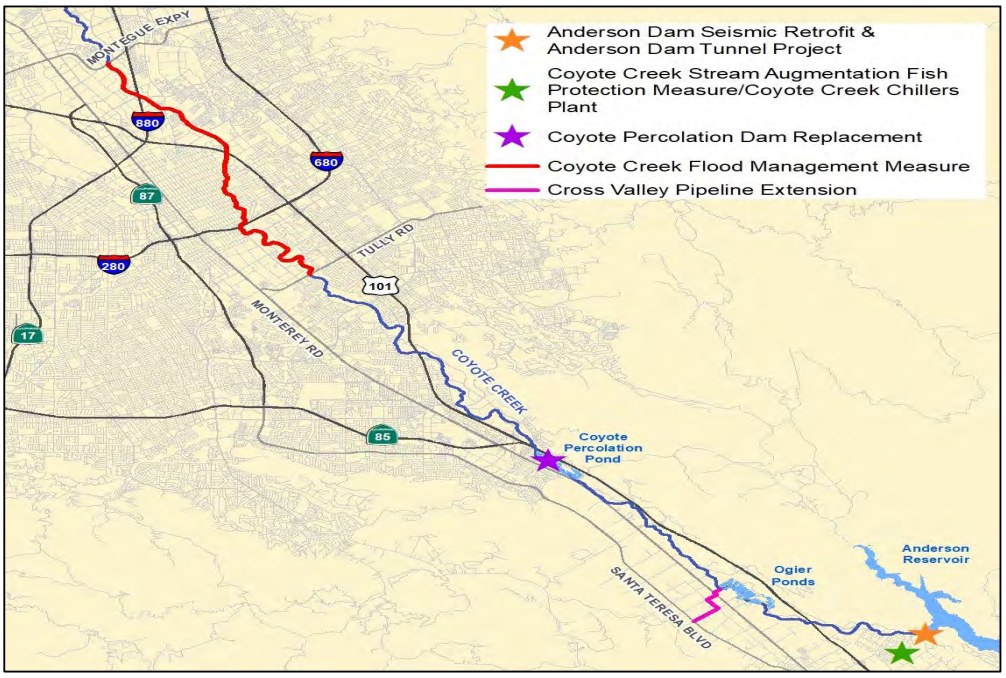
- Resolve seismic stability deficiencies to ensure public safety.
- Restore lost reservoir storage capacity resulting from the operational restriction issued by the Division of Safety of Dams (DSOD).
- Resolve the DSOD/FERC (Federal Energy Regulatory Commission) requirements in a timely manner.

In accordance with Federal regulations, this project includes the construction of subprojects as part of the Federal Energy Regulatory Commission Order Compliance Project (FOCP). These are:

- FOCP Anderson Dam Tunnel;
- FOCP Coyote Percolation Dam Replacement;
- FOCP Cross Valley Pipeline Extension;
- FOCP Coyote Creek Flood Management Measure; and
- FOCP Coyote Creek Stream Augmentation Fish Protection Measure.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project C1. For a full description of the SCW benefits and KPI's, please visit www.valleywater.org.

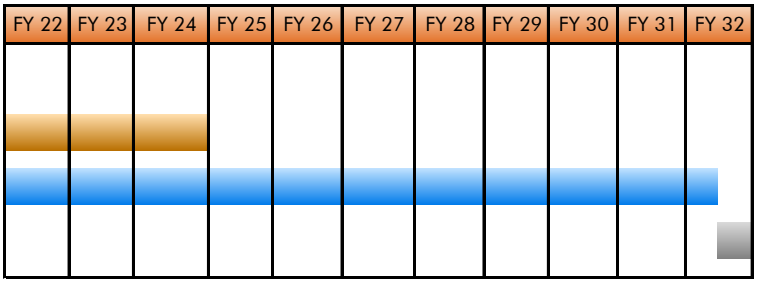
PROJECT LOCATION



SCHEDULE & STATUS

January 2011 to June 2032

Phase	Cost
Plan	56,788
Design	129,227
Construct	978,780
Closeout	1,128
	1,190,211



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
91864005-Anderson Dam Seismic Retrofit	107,480	126,937	28,639	41,737	92,295	85,120	85,120	409,925	977,253
with inflation	107,480	126,937	28,639	44,048	95,434	88,877	89,632	438,028	1,019,074
91864006-Anderson Dam Tunnel	0	0	102,110	56,134	0	0	0	0	158,244
with inflation	0	0	102,110	59,243	0	0	0	0	161,353
91864007-Coyote Creek Flood Management Measure	0	0	20,567	7,193	0	0	0	0	27,760
with inflation	0	0	20,567	7,590	0	0	0	0	28,158
91864008-Coyote Crk Stream Augmentation Fish Protection Measure	0	0	6,023	241	0	0	0	0	6,264
with inflation	0	0	6,023	254	0	0	0	0	6,277
91864009-Coyote Percolation Dam Replacement	0	0	2,987	10,310	0	0	0	0	13,297
with inflation	0	0	2,987	10,881	0	0	0	0	13,868
91864010-Cross Valley Pipeline Extension	0	0	7,152	240	0	0	0	0	7,392
with inflation	0	0	7,152	253	0	0	0	0	7,405
TOTAL	107,480	**126,937**	**167,478**	**115,856**	**92,295**	**85,120**	**85,120**	**409,925**	**1,190,211**
with inflation	107,480	**126,937**	**167,478**	**122,269**	**95,434**	**88,877**	**89,632**	**438,028**	**1,236,134**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
91864005-Anderson Dam Seismic Retrofit	107,049	127,368	1	28,639	44,048	95,434	88,877	89,632	438,028	1,019,074
91864006-Anderson Dam Tunnel			0	102,110	59,243	0	0	0	0	161,353
91864007-Coyote Creek Flood Management Measure			0	20,567	7,590	0	0	0	0	28,158
91864008-Coyote Crk Stream Augmentation Fish Protection Measure			0	6,023	254	0	0	0	0	6,277
91864009-Coyote Percolation Dam Replacement			0	2,987	10,881	0	0	0	0	13,868
91864010-Cross Valley Pipeline Extension			0	7,152	253	0	0	0	0	7,405
TOTAL	**107,049**	**127,368**	**1**	**167,478**	**122,269**	**95,434**	**88,877**	**89,632**	**438,028**	**1,236,134**

Adjusted Budget includes adopted budget plus any planned budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	1,168,081
SCVWD Safe Clean Water Fund	68,053
Other Funding Sources	0
Total	**1,236,134**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project Calero and Guadalupe Dams Seismic Retrofits
Program Water Supply - Storage
Project No. 91084020 & 91894002 **Contact** Christopher Hakes chakes@valleywater.org



Aerial view of the Calero Dam and reservoir



Aerial view of the Guadalupe Dam, spillway, and part of the reservoir

PROJECT DESCRIPTION

Project 91084020: This project performs planning (engineering and environmental) for the Calero and Guadalupe Dams.
Project 91894002: This project designs and constructs improvements to Guadalupe Dam.
The projects will accomplish the following objectives:

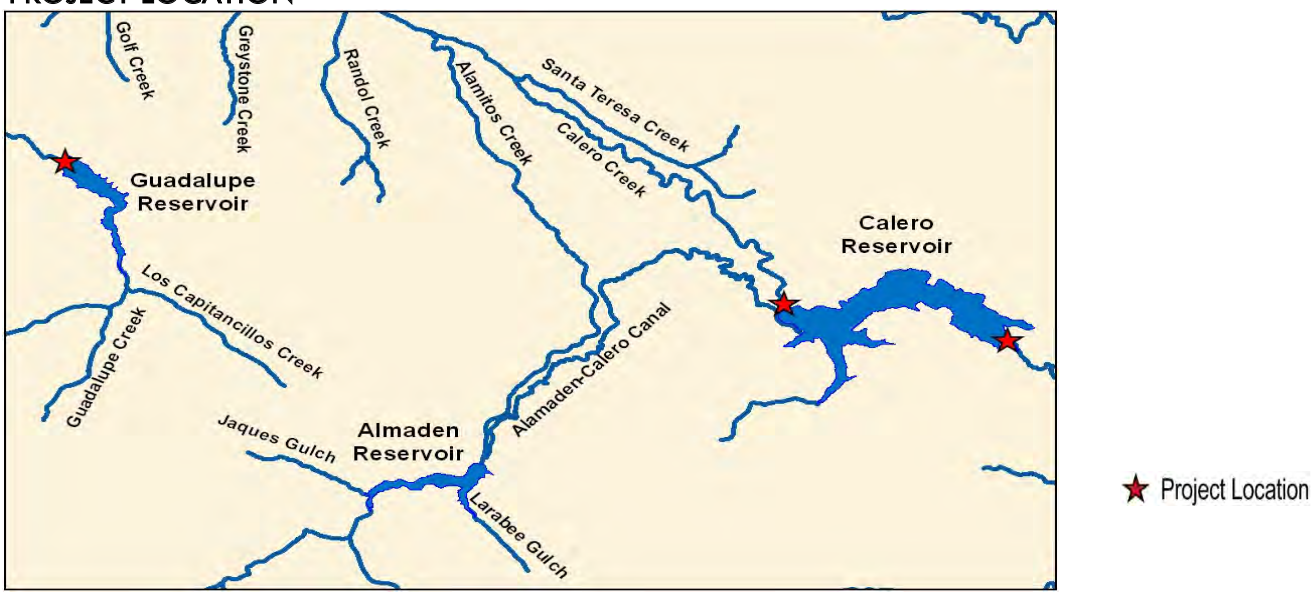
Calero Dam

- Stabilize the embankment to withstand a Maximum Credible Earthquake (MCE).
- Modify or replace the outlet works if determined to be inadequate.
- Modify the spillway or increase the freeboard of the dam for safe passage of the Probable Maximum Flood (PMF).
- Provide modifications that do not preclude potential future expansion of dam and reservoir to provide additional reservoir storage.
- Remove or relocate the Bailey Ranch structures and breach Fellow's Dike.

Guadalupe Dam

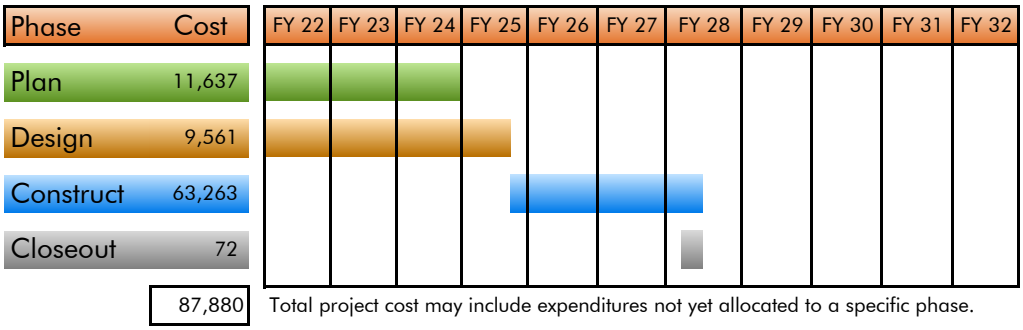
- Stabilize the embankment to withstand a MCE.
- Implement improvements as necessary for the dam system to safely pass the PMF.
- Ensure that the outlet works and hydraulic control system meet the Division of Safety of Dams requirements.
- Relocate the intake structure out of the upstream berm in a timely manner.
- Incorporate other measures to address seismic and other dam safety deficiencies that are identified through the project delivery process.

PROJECT LOCATION



SCHEDULE & STATUS

July 2012 to January 2028



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
91084020 - Calero and Guadalupe Dams Seismic Retrofits-Planning	9,147	1,970	1,672	743	0	0	0	0	13,532
with inflation	9,147	1,970	1,672	811	0	0	0	0	13,600
91894002 - Guadalupe Dam Seismic Retrofit-Design & Construct	9,647	473	307	500	11,600	23,000	23,000	5,822	74,349
with inflation	9,647	473	307	546	12,806	25,538	25,699	6,561	81,576
TOTAL	**18,794**	**2,443**	**1,979**	**1,243**	**11,600**	**23,000**	**23,000**	**5,822**	**87,880**
with inflation	**18,794**	**2,443**	**1,979**	**1,357**	**12,806**	**25,538**	**25,699**	**6,561**	**95,176**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
91084020 - Calero and Guadalupe Dams Seismic Retrofits-Planning	10,837	1,970	1,690	0	793	0	0	0	0	13,600
91894002 - Guadalupe Dam Seismic Retrofit-Design & Construct	10,728	0	608	0	245	12,806	25,538	25,699	6,561	81,576
TOTAL	**21,565**	**1,970**	**2,299**	**0**	**1,038**	**12,806**	**25,538**	**25,699**	**6,561**	**95,176**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	95,176
Other Funding Source	0
Total	**95,176**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 50+ Years

Project	**Calero Dam Seismic Retrofit-Design & Construction**
Program	Water Supply – Storage
Project No.	91874004
Contact	Christopher Hakes chakes@valleywater.org



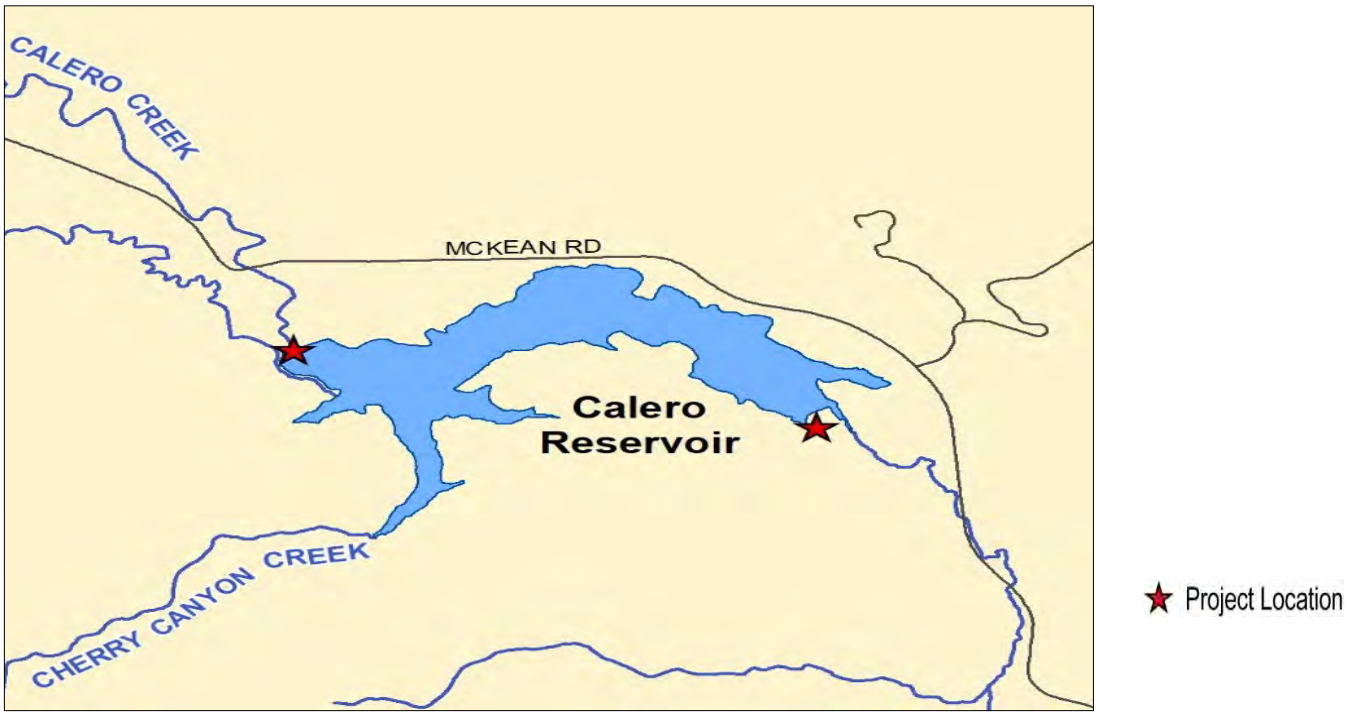
Aerial view of the Calero Dam and reservoir

PROJECT DESCRIPTION

This project designs and constructs improvements to the Calero Dam to accomplish the following objectives:

- Stabilize the embankment to withstand a Maximum Credible Earthquake.
- Modify or replace the outlet works if determined to be inadequate.
- Modify the spillway or increase the freeboard of the dam for safe passage of the Probable Maximum Flood.
- Provide modifications that do not preclude potential future expansion of dam and reservoir to provide additional reservoir storage.
- Remove or relocate the Bailey Ranch structures and breach Fellow's Dike.

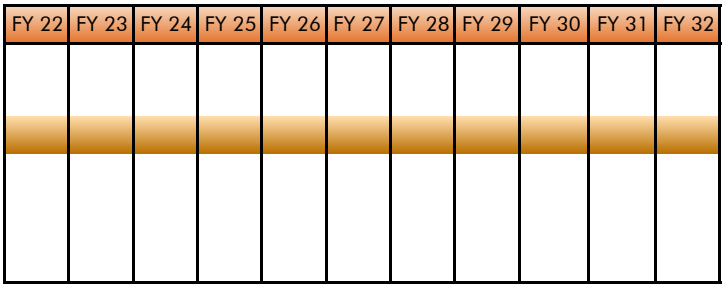
PROJECT LOCATION



SCHEDULE & STATUS

January 2015 to June 2035

Phase	Cost
Plan	8
Design	13,633
Construct	103,502
Closeout	8
	117,290



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
91874004 - Calero Dam Seismic Retrofit-Design & Construct	10,898	209	105	80	30	30	30	105,908	117,290
with inflation	10,898	209	105	87	34	36	37	147,509	158,916

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
91874004 - Calero Dam Seismic Retrofit-Design & Construct	13,147	0	2,040	0	0	0	0	0	145,769	158,916

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	158,916
Other Funding Source	0
Total	**158,916**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

USEFUL LIFE: 50+ Years

Project	**Coyote Pumping Plant ASD Replacement**
Program	Water Supply – Storage
Project No.	91234002
Contact	Emmanuel Aryee earyee@valleywater.org



ASD motors at the Coyote Pumping Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Coyote Pumping Plant Adjustable Speed Drives (ASD) to accomplish the following objectives:

- Replace existing outdated and unsupported ASDs with the latest technology.
- Modify/convert existing six wound rotor motors to be compatible with new stator fed ASD.
- Upgrade the heating, ventilation and air conditioning system to support the additional cooling requirements.
- Modify/upgrade supervisory control and data acquisition control and instrumentation systems, and control strategy to support the new ASDs.
- Replace two main medium voltage circuit breakers and one medium voltage tie circuit breaker (switch) which are near the end of their service life.
- Replace motor control equipment line-up with new switchgears.
- Installation of a pump motor vibration and a power monitoring system and motor control center.

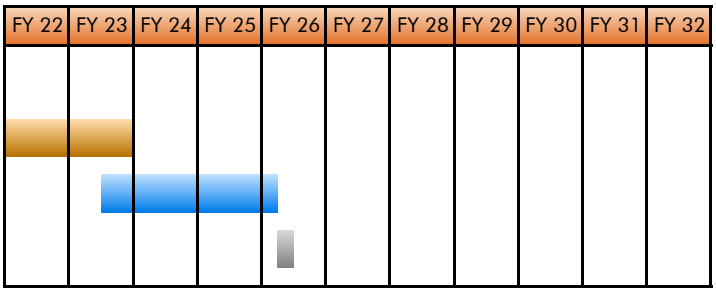
PROJECT LOCATION



SCHEDULE & STATUS

July 2017 to November 2025

Phase	Cost
Plan	732
Design	3,936
Construct	20,771
Closeout	65
	26,432



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
91234002-Coyote Pumping Plant ASD Replacement	2,141	1,845	9,676	11,735	970	65	0	0	26,432
with inflation	2,141	1,845	9,676	12,532	1,068	78	0	0	27,339

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
91234002-Coyote Pumping Plant ASD Replacement	4,368	0	382	9,294	12,532	1,068	78	0	0	27,339

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	27,339
Other Funding Sources	0
Total	27,339

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $60,000 per year beginning in FY26.

USEFUL LIFE: Not Available

Project	**Coyote Warehouse**
Program	Water Supply - Storage
Project No.	91234011
Contact	Emmanuel Aryee earyee@valleywater.org



Newly constructed warehouse will be used to secure equipment and spare parts

PROJECT DESCRIPTION

This project plans, designs, and constructs the Coyote Warehouse to accomplish the following objectives:

- Provide suitable storage space for pipeline spare parts and appurtenances, and to protect such materials from weather.
- Improve Valley Water's staff efficiency and effectiveness in pipeline maintenance work.

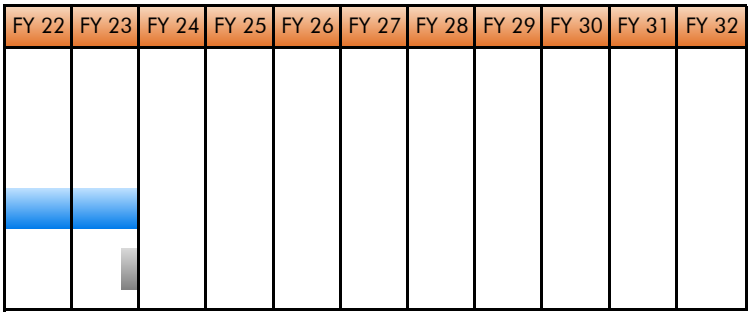
PROJECT LOCATION



SCHEDULE & STATUS

July 2015 to June 2023

Phase	Cost
Plan	157
Design	781
Construct	7,904
Closeout	60
	9,844



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
91234011-Coyote Warehouse	9,642	76	126	0	0	0	0	0	9,844
with inflation	9,642	76	126	0	0	0	0	0	9,844

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
91234011-Coyote Warehouse	9,645	73	0	126	0	0	0	0	0	9,844

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	9,844
Other Funding Sources	0
Total	**9,844**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $3,000 per year beginning in FY22.

USEFUL LIFE: 50 years

Project	**Dam Seismic Stability Evaluations**
Program	Water Supply – Storage
Project No.	91084019
Contact	Christopher Hakes chakes@valleywater.org



Field exploration for seismic stability evaluations

PROJECT DESCRIPTION

This project conducts preliminary planning (seismic stability evaluation) for nine dams to accomplish the following objectives:

- Address seismic stability issues.
- Provide for public safety.
- Ensure operational availability of reservoirs.
- Address protection of the assets.

This project funds preliminary planning activities to determine the need for seismic stability improvements for eight of the nine dams identified on the map below. The evaluations for Almaden, Calero, Guadalupe, Lenihan, and Stevens Creek Dams have been completed as part of this project, while the evaluations for Coyote, Chesbro and Uvas are scheduled to continue through 2029. (The seismic stability evaluation for Anderson Dam was completed in a separate project.) Planning, design, and construction of identified seismic improvements, will be funded in the future as site-specific projects.

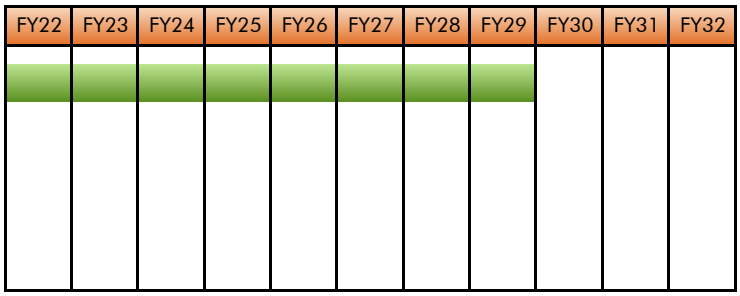
PROJECT LOCATION



SCHEDULE & STATUS

August 2009 to June 2029

Phase	Cost
Plan	29,821
Design	-
Construct	-
Closeout	-
	29,821



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
91084019-Dam Seismic Stability Evaluations	22,087	566	417	400	4,951	350	350	700	29,821
with inflation	22,087	566	417	437	5,650	417	436	932	30,942

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
91084019-Dam Seismic Stability Evaluations	22,588	65	0	417	437	5,650	417	436	932	30,942

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	30,942
Other Funding Source	0
Total	**30,942**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project	**Pacheco Reservoir Expansion Project (A1)**
Program	Water Supply – Storage
Project No.	91954002
Contact	Christopher Hakes chakes@valleywater.org



Aerial view of Pacheco Reservoir

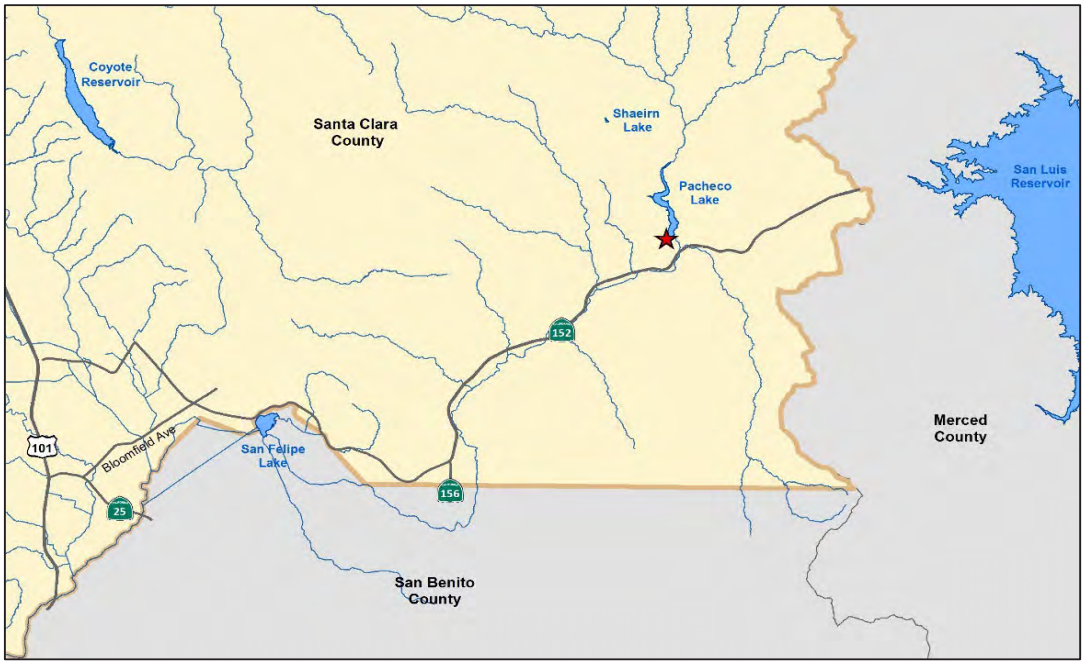
PROJECT DESCRIPTION

This project will include expanding the storage capacity of the existing Pacheco Reservoir to 140,000 acre-feet through construction and operation of a new dam, conveyance facilities, and related appurtenant structures. The project objectives include:

- Increase suitable habitat in Pacheco Creek for federally threatened steelhead.
- Increase water supply reliability to help meet municipal and industrial water demands in Santa Clara County during drought periods and emergencies, or to address shortages due to regulatory and environmental restrictions.
- Develop water supplies for environmental water management that support habitat management and other environmental water needs.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project A1. For a full description of the SCW benefits and KPI's, please visit www.valleywater.org.

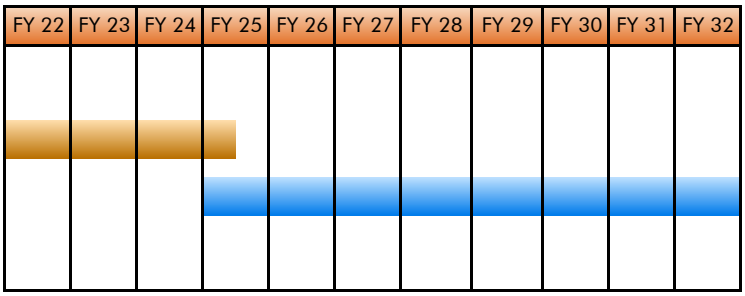
PROJECT LOCATION



SCHEDULE & STATUS

December 2018 to September 2032

Phase	Cost
Plan	41,626
Design	110,238
Construct	2,033,138
Closeout	360
	2,206,071



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
91954002-Pacheco Reservoir Expansion Project (A1)	56,005	15,411	31,204	40,202	241,224	287,737	241,331	1,292,958	2,206,071
with inflation	56,005	15,411	31,204	43,901	267,922	320,145	268,295	1,458,769	2,461,652

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
91954002-Pacheco Reservoir Expansion Project (A1)	80,276	-8,450	410	30,794	43,901	267,922	320,145	268,295	1,458,769	2,461,652

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	1,267,242
California Water Commission	496,664
SCVWD Safe Clean Water Fund - Measure S	10,000
Partnership Contributions (Unsecured)	687,746
Total	**2,461,652**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

USEFUL LIFE: TBD

Project	**Small Capital Improvements, San Felipe**
Program	Water Supply – Storage
Project No.	91214010s
Contact	Greg Williams gwilliams@valleywater.org



Example of bacterial corrosion on a suction wear ring of an impeller

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the life of an asset. This project implements a systematic approach to the renewal and replacement of equipment at facilities within the San Felipe Division, by designing and constructing improvements identified through Valley Water's 10-year Asset Management Program. Infrastructure within this project includes tunnels, large diameter pipelines, valve structures, pumps, and associated support equipment. Reach 1 renewal and replacement activities are conducted in coordination and cooperation with San Felipe Division Reach 1 contractors and other agencies. Projects for FY23 include:

- 91214010 Reach 1: Completion of a fire suppression system; electrical current limit fuse & hydraulic valve operating system (HVOS) upgrade.
- 91224010 Reach 2: Calaveras Fault Inlet/Calaveras Fault Outlet road access fix (culvert replacements).
- 91234010 Reach 3: Replace existing end-of-life staff trailers. Coyote Discharge Line – Replace meter vault instrumentation, Overhaul and recoat 2 pumps at Coyote Pumping Plant.
- All active projects have positive net present value savings at the time of the feasibility study and are subject to design phase validation.

PROJECT LOCATION



SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	2,256	3,821	171	864	90	742	45,124	53,068
with inflation	n/a	2,256	3,821	187	986	107	925	63,792	72,074
91224010-Small Capital Improvements, San Felipe Reach 2	n/a	930	0	0	0	0	10	362	1,302
with inflation	n/a	930	0	0	0	0	12	489	1,431
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	1,331	2,360	1,890	9	0	2,280	212	8,082
with inflation	n/a	1,331	2,360	2,064	10	0	2,841	309	8,916
TOTAL	**0**	**4,517**	**6,181**	**2,061**	**873**	**90**	**3,032**	**45,698**	**62,452**
with inflation	**0**	**4,517**	**6,181**	**2,251**	**996**	**107**	**3,778**	**64,590**	**82,420**

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	2,256	0	3,821	187	986	107	925	63,792	72,074
91224010-Small Capital Improvements, San Felipe Reach 2	n/a	930	0	0	0	0	0	12	489	1,431
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	1,331	0	2,360	2,064	10	0	2,841	309	8,916
TOTAL	**0**	**4,517**	**0**	**6,181**	**2,251**	**996**	**107**	**3,778**	**64,590**	**82,420**

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	63,191
San Benito County Water District	19,230
Total	**82,420**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Transmission Facilities



Transmission Facilities

- 142 Miles of Pipelines
- 3 Pump Stations
- 12 Capital Projects

Project	**10-Year Pipeline Inspection & Rehabilitation**
Program	Water Supply – Transmission
Project No.	95084002
Contact	Emmanuel Aryee earyee@valleywater.org



A typical rehabilitated line valve assembly

PROJECT DESCRIPTION

The project develops Valley Water's large diameter Pipeline Management Strategy and a 10-year program for implementation tasks associated with the strategy. This program involves the inspection, planning, and design activities required for renewal of Valley Water's large pipelines and tunnels. The project includes the following objectives:

- Perform dewatering and internal inspections of Valley Water's pipelines and tunnels.
- Renew distressed pipe sections as required. Renewal encompasses the actions of repair, rehabilitation, and replacement.
- Perform condition assessment, maintenance, repair, coating, and other activities as required.
- Replace line valves, flow meters, pipeline appurtenance assemblies, and piping as required.
- Improve system performance by installing cathodic protection systems, acoustic fiber optic monitoring of prestressed concrete cylinder pipe, and transient pressure monitoring systems.
- Development of a pipeline asset risk management system that includes geographic information system, databases, algorithms, models, data acquisition, program documents, and decision support systems.
- Update Valley Water's Pipeline Maintenance Program and its associated Programmatic Environmental Impact Report for future inspection and rehabilitation efforts to Valley Water's pipeline system.

The project schedule includes inspection and renewal work along the various pipelines and tunnels as identified below:

- 2022: Santa Clara Conduit Phase I, Santa Clara Tunnel, Pacheco Tunnel, Almaden Valley Pipeline
- 2023: Snell Pipeline, Santa Clara Conduit Phase II
- 2024: West Pipeline Phase I
- 2025: West Pipeline Phase II

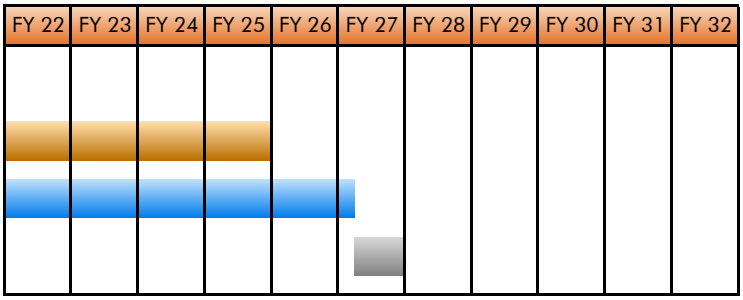
PROJECT LOCATION



SCHEDULE & STATUS

July 2017 to June 2027

Phase	Cost
Plan	2,370
Design	19,565
Construct	96,750
Closeout	514
	136,736



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
95084002-10-Year Pipeline Inspection & Rehabilitation	67,336	16,990	18,327	19,318	7,900	6,720	145	0	136,736
with inflation	67,336	16,990	18,327	20,782	8,754	7,683	181	0	140,053

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
95084002-10-Year Pipeline Inspection & Rehabilitation	72,234	16,243	4,151	14,176	20,782	8,754	7,683	181	0	140,053

Adjusted Budget includes adopted budget plus any planned budget adjustment.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	140,053
Other Funding Sources	0
Total	**140,053**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project	**Almaden Valley Pipeline Replacement**
Program	Water Supply - Transmission
Project No.	92304001
Contact	Emmanuel Aryee earyee@valleywater.org



Almaden Valley Pipeline Replacement work is underway

PROJECT DESCRIPTION

The Almaden Valley Pipeline (AVP) is a part of the Valley Water raw water delivery system. This pipeline is used to supply raw water to Valley Water's water treatment plants and groundwater recharge facilities. This pipeline provides access, with no redundancy, to local raw water sources from Valley Water's Anderson and Calero Reservoirs and imported water from the United States Bureau of Reclamation San Luis Reservoir and San Felipe system. The AVP was constructed in two major units/phases: Unit 1 was constructed in the 1960s and Unit 2 was constructed in the 1980s. The AVP is approximately 12 miles in length consisting of 72-inch up to 78-inch diameter prestressed concrete cylinder pipe (approximately 7.5 miles), welded steel pipe and bar wrapped pipe (approximately 4.2 miles).

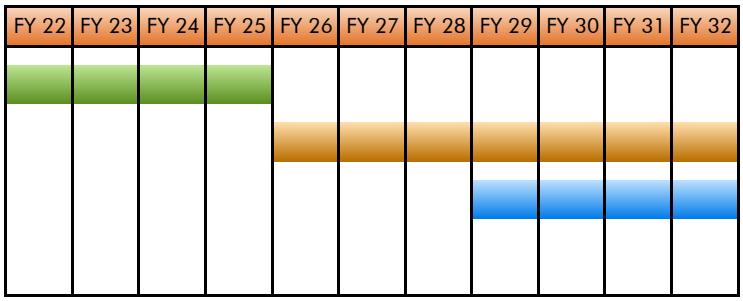
PROJECT LOCATION



SCHEDULE & STATUS

July 2019 to November 2040

Phase	Cost
Plan	8,373
Design	11,977
Construct	58,135
Closeout	-
	78,486



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
92304001-Almaden Valley Pipeline Replacement	12	582	994	1,434	2,330	1,815	2,339	68,980	78,486
with inflation	12	582	994	1,566	2,659	2,164	2,915	99,706	110,598

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
92304001-Almaden Valley Pipeline Replacement	668	841	915	79	1,566	2,659	2,164	2,915	99,706	110,598

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	110,598
Other Funding Sources	0
Total	**110,598**

OPERATING COST IMPACTS

Operating cost impacts will be determined during the design phase.

USEFUL LIFE: 50+ Years

Project	**Distribution System Master Plan Implementation Project**
Program	Water Supply - Transmission
Project No.	95044001
Contact	Samuel Bogale sbogale@valleywater.org



Distribution System Master Plan Implementation

PROJECT DESCRIPTION

This project will develop a comprehensive 30-year implementation master plan to identify improvements to Valley Water's raw and treated water systems based on current demands, future growth, and emergencies. The project will optimize our raw and treated water distribution systems, evaluate retailer needs, recommend direct capital actions needed to protect existing distribution systems, and result in a programmatic EIR.

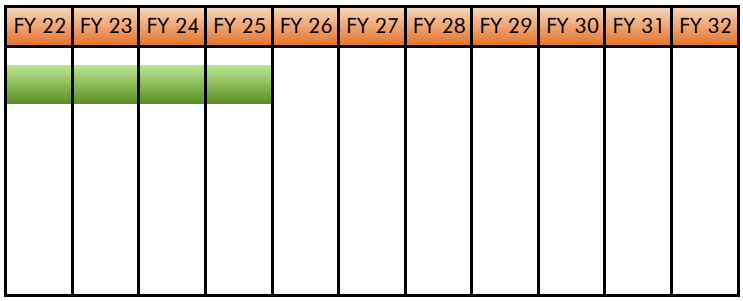
PROJECT LOCATION



SCHEDULE & STATUS

June 2020 to June 2025

Phase	Cost
Plan	8,629
Design	-
Construct	-
Closeout	-
	8,673



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
95044001-Distribution System Master Plan Implementation Project	385	4,903	730	1,850	805	0	0	0	8,673
with inflation	385	4,903	730	2,020	919	0	0	0	8,957

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
95044001-Distribution System Master Plan Implementation Project	2,383	2,905	0	730	2,020	919	0	0	0	8,957

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	8,957
Other Funding Sources	0
Total	**8,957**

OPERATING COST IMPACTS

This project is not anticipated to increase or decrease annual operating costs, as the project is a planning and design effort. Projects and programs identified through the implementation plan will have their own operating cost impacts identified as they come online.

USEFUL LIFE: Not Available

Project	**FAHCE Implementation**
Program	Water Supply - Transmission
Project No.	92C40357
Contact	John Bourgeois jbourgeois@valleywater.org



Fish habitats, such as the one shown here, will be developed for habitat conservation

PROJECT DESCRIPTION

In 1996, Guadalupe-Coyote Resource Conservation District (GCRCD) filed a water rights complaint against the district alleging degraded fish, wildlife, water quality and other beneficial uses in Coyote Creek, Guadalupe River and Stevens Creek. The 1997 listing of Central California Coast Steelhead as a threatened species under Federal Endangered Species Act requires Valley Water to obtain permits to address the impacts of its water supply activities on aquatic habitat and instream flows. In 2003, a settlement agreement was initialed by parties involved. Valley Water is the process of preparing a Fish Habitat Restoration Plan (FHRP) and associated environmental impact report to complete the water rights change petitions, resolve the water rights complaint and address issues raised in the 2003 Settlement Agreement. The Fish and Aquatic Habitat Collabrative Effort (FAHCE) consists of reservoir reoperations to support salmonid spawning, rearing and migration; provisions for fish passage and aquatic habitat restoration measures, and to adaptively manage FHRP implementation in the Guadalupe River, Coyote Creek and Stevens Creek watersheds (Three Creeks).

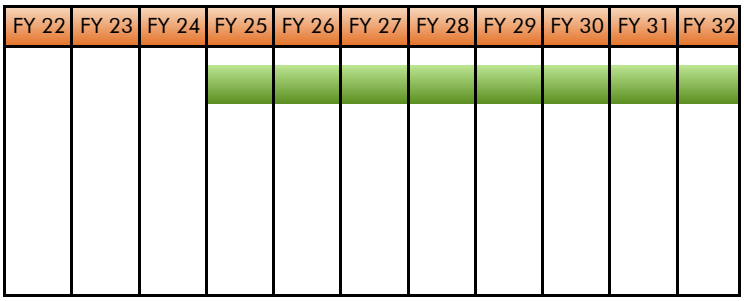
PROJECT LOCATION

Project sites will be located at reservoirs and streams within the Three Creeks Project Area, in the Guadalupe, Coyote and Stevens Creek Watersheds. Project site locations are yet to be determined and no map is provided.

SCHEDULE & STATUS

July 2020 to June 2033

Phase	Cost
Plan	145,108
Design	-
Construct	-
Closeout	-
	145,108



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
92C40357-FAHCE Implementation	0	0	0	0	4,739	4,379	14,691	121,299	145,108
with inflation	0	0	0	0	4,739	4,379	14,691	121,299	145,108

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
92C40357-FAHCE Implementation	0	0	0	0	0	4,739	4,379	14,691	121,299	145,108

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	145,108
Other Funding Source	0
Total	145,108

OPERATING COST IMPACTS

Operating cost impacts will be dependent on the maintenance requirements of each site. Once the sites have been identified, operating costs will be determined based on the existing conditions and maintenance identified for each site.

USEFUL LIFE: Not Available

Project	**IRP2 Additional Line Valves (A3)**
Program	Water Supply – Transmission
Project No.	26764001
Contact	Emmanuel Aryee earyee@valleywater.org



New line valves, actuators, and vaults similar to this will be installed along the East, West, and Snell pipelines

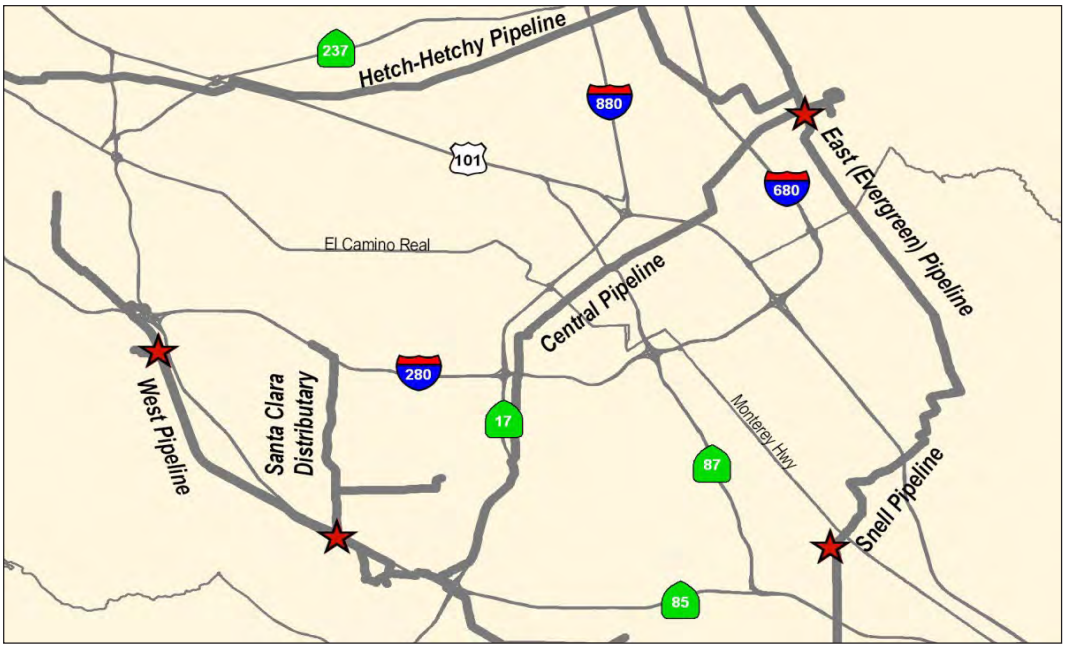
PROJECT DESCRIPTION

This project plans, designs, and constructs four additional line valves in the treated water distribution system, as defined in the Water Infrastructure Reliability Plan, Phase 2 (IRP2). Design and construction of this project will be in conjunction with work on the same pipelines under the 10-year Pipeline Inspection and Rehabilitation Project. The new line valves will be at various locations along the East, West, and Snell pipeline to accomplish the following objectives:

- Allow Valley Water to isolate sections of the treated water pipeline for general maintenance or to repair activities following a major seismic event.
- Allow the network of emergency wells to operate, even when there is damage upstream and downstream of individual wells.

This project meets the commitments of the Safe, Clean Water Program (SCW), Project A3. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION

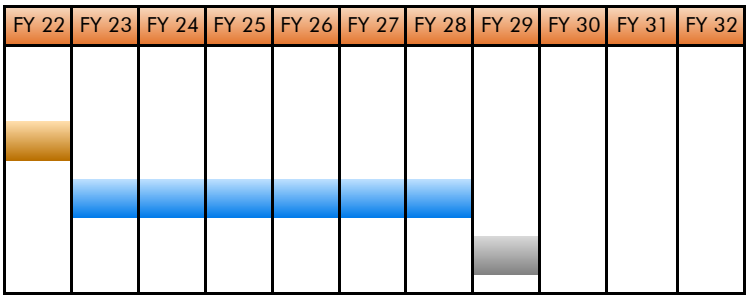


SCHEDULE & STATUS

July 2018 to June 2029

Line valve construction to be coordinated with pipeline maintenance and rehabilitation projects.

Phase	Cost
Plan	291
Design	2,077
Construct	11,954
Closeout	70
	15,149



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
26764001-IRP2 Additional Line Valves (A3)	2,307	315	1,220	3,226	3,176	2,943	1,811	151	15,149
with inflation	2,307	315	1,220	3,458	3,526	3,370	2,155	201	16,551

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
26764001-IRP2 Additional Line Valves (A3)	2,278	344	0	1,220	3,458	3,526	3,370	2,155	201	16,551

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe Clean Water Fund	16,551
Other Funding Source	0
Total	**16,551**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 35 Years

Project	**Pacheco/Santa Clara Conduit Right of Way Acquisition**
Program	Water Supply – Transmission
Project No.	92144001
Contact	Emmanuel Aryee earyee@valleywater.org



Access to much of the San Felipe Division pipelines must currently be made through private property, due to a lack of easements, such as Bloomfield access at Vault 21-23

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements related to the acquisition of right-of-way along the South County pipelines to accomplish the following objectives:

- Provide unlimited access to Valley Water-owned pipelines.
- Reduce conflicts with local land owners and improve response time for emergency repairs or operations.

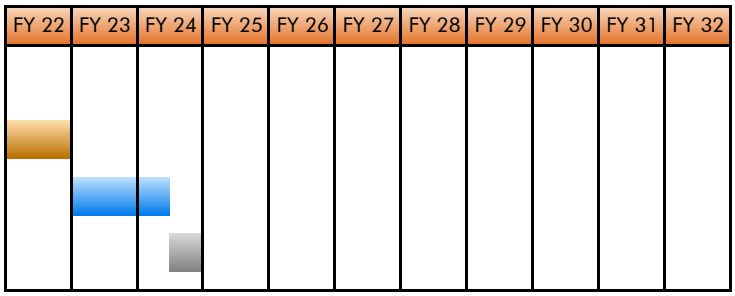
PROJECT LOCATION



SCHEDULE & STATUS

July 2009 to June 2024

Phase	Cost
Plan	1,887
Design	2,827
Construct	1,168
Closeout	35
	6,035



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	1,878	1,662	2,300	195	0	0	0	0	6,035
with inflation	1,878	1,662	2,300	211	0	0	0	0	6,051

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	3,334	1,659	1,453	847	211	0	0	0	0	6,051

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	6,032
San Benito County Water District	19
Total	**6,051**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $8,000 per year, beginning in FY23, for vegetation control and/or maintenance of fences, gates and locks for the access roads.

USEFUL LIFE:

15-20 Years

Project	**SCADA Master Plan Implementation**
Program	Water Supply - Transmission
Project No.	95044002
Contact	Samuel Bogale sbogale@valleywater.org



Process control / SCADA system

PROJECT DESCRIPTION

The process control/supervisory control and data acquisition (SCADA) systems, which serve a pivotal role in monitoring and controlling Valley Water's raw water conveyance system (including reservoirs and pumping plants), treatment plants, and distribution systems, are aging and in need of a coordinated replacement and upgrade.

The proper functioning of these systems is essential for meeting water demand, maintaining water quality, achieving regulatory compliance, and satisfying customer expectations. In addition, the process control/SCADA systems provide important data used accross the organization in the Operations, Maintenance, Water Quality, and Management divisions. Improved access to the data provided by this project will allow for more efficient management and operation of all the complex facilities and systems involved.

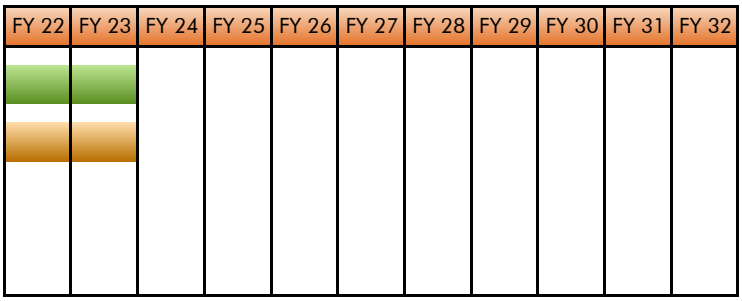
PROJECT LOCATION



SCHEDULE & STATUS

July 2020 to June 2023

Phase	Cost
Plan	4,694
Design	1,569
Construct	-
Closeout	-
	6,373



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
95044002-SCADA Master Plan Implementation	110	2,384	2,826	1,053	0	0	0	0	6,373
with inflation	110	2,384	2,826	1,150	0	0	0	0	6,470

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
95044002-SCADA Master Plan Implementation	1,365	2,384	1,255	1,571	1,150	0	0	0	0	6,470

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	6,470
Other Funding Sources	0
Total	**6,470**

OPERATING COST IMPACTS

This project is not anticipated to increase or decrease annual operating costs, as the project is a planning and design effort. Projects identified through this implementation project will have their own operating cost impacts identified as they come online.

USEFUL LIFE: Not Available

Project	**Small Capital Improvements, Raw Water Transmission**
Program	Water Supply – Transmission
Project No.	92764009
Contact	Greg Williams gwilliams@valleywater.org



Major repair and replacement of turnout roofs and similar small raw water capital projects will be completed in accordance with the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the life of an asset. This project will repair or rehabilitate various existing raw water distribution facilities. These activities include identifying and fixing corrosion problems, replacing valves and other appurtenances and modifying water recharge facilities to avoid failure of the raw water transmission system and extend the life of the infrastructure. This project is part of Valley Water's 10-year Asset Management Program. Planned projects for FY23 include:

- Vasona Pumping Plant security fencing.
- Turnout roof replacements.
- Purchase spare parts for inventory.
- Calero Reservoir Inlet Flowmeters Replacement.
- Permanent Valley Habitat Plan buyout of all work areas within District Fee (for Cross Valley Pipeline and Recharge sites).
- Recycled water pipeline video inspection.

PROJECT LOCATION



SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
92764009-Small Capital Improvements, Raw Water Transmission	n/a	2,572	1,010	1,018	4,037	200	0	2,403	11,240
with inflation	n/a	2,572	1,010	1,112	4,607	239	0	3,408	12,947

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
92764009-Small Capital Improvements, Raw Water Transmission	n/a	2,572	0	1,010	1,112	4,607	239	0	3,408	12,947

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	12,947
Other Funding Source	0
Total	**12,947**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Small Capital Improvements, Treated Water Transmission**
Program	Water Supply – Transmission
Project No.	94764006
Contact	Greg Williams gwilliams@valleywater.org



Valve installation in the Piedmont Line Valve Vault; Similar small capital projects will be carried out at treated water transmission facilities according to the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the life of an asset. This project will repair or rehabilitate various existing treated water distribution facilities, such as identifying and treating corrosion problems, replacing valves and other appurtenances and repairing or adding turnouts to avoid failure of the treated water transmission system and to extend the life of the infrastructure. This project is part of Valley Water's 10-year Asset Management Program. Planned projects for FY23 include:

- Treated water meter replacements.

PROJECT LOCATION



SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
94764006-Small Capital Improvements, Treated Water Transmission	n/a	131	297	277	100	42	0	215	1,062
with inflation	n/a	131	297	302	114	50	0	307	1,201

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
94764006-Small Capital Improvements, Treated Water Transmission	n/a	131	0	297	302	114	50	0	307	1,201

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	1,201
Other Funding Source	0
Total	**1,201**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Treated Water Isolation Valves**
Program	Water Supply – Transmission
Project No.	94084007
Contact	Emmanuel Aryee earyee@valleywater.org



New line valves similar to this will be installed at three locations within the treated water system

PROJECT DESCRIPTION

This project plans, designs, and constructs three (3) additional line valve appurtenances to accomplish the following objectives:

- Improve service levels to treated water system customers in a major hazard event or system outage.
- Improve Valley Water's ability to take sections of the treated water distribution system out of service for maintenance activities.

PROJECT LOCATION

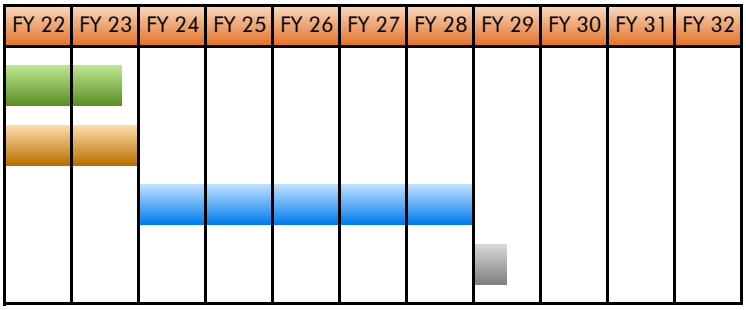


SCHEDULE & STATUS

December 2018 to December 2028

Line valve construction to be coordinated with other pipeline maintenance and rehabilitation projects.

Phase	Cost
Plan	171
Design	1,170
Construct	6,116
Closeout	53
	7,510



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
94084007-Treated Water Isolation Valves	26	991	145	561	1,907	1,675	501	1,704	7,510
with inflation	26	991	145	605	2,110	1,922	599	2,103	8,501

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
94084007-Treated Water Isolation Valves	1,271	0	254	0	496	2,110	1,922	599	2,103	8,501

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	8,501
Other Funding Sources	0
Total	**8,501**

OPERATING COST IMPACTS

The operating budget impact for the three proposed line valve facilities is estimated to be $21,000 per year beginning in FY28.

USEFUL LIFE: 50 Years

Project	**Vasona Pump Station Upgrade**
Program	Water Supply – Transmission
Project No.	92264001
Contact	Emmanuel Aryee earyee@valleywater.org



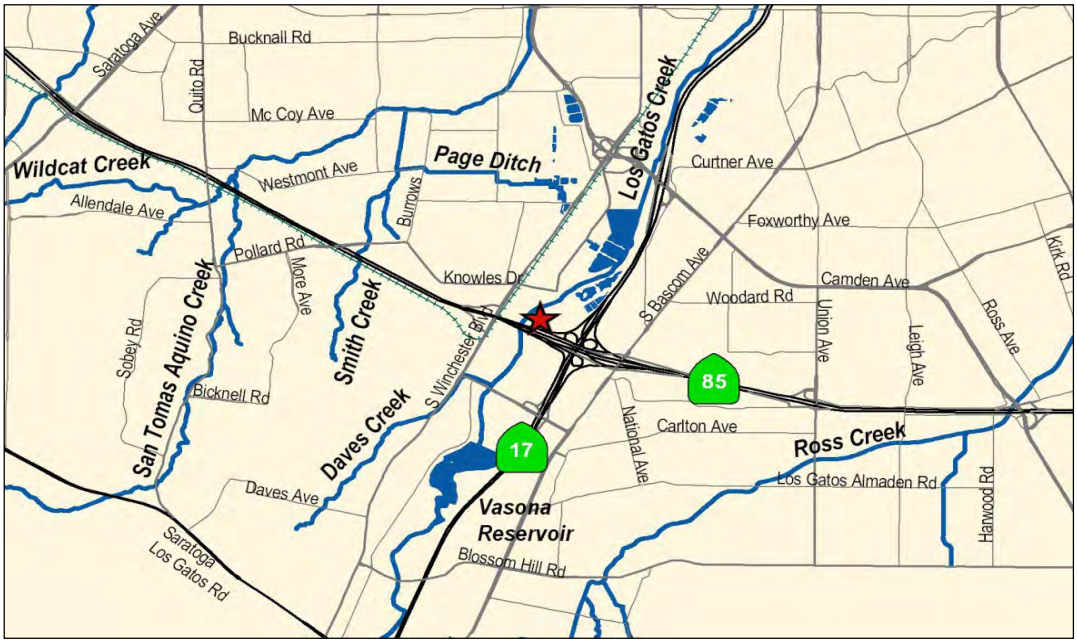
Vasona Pump Station

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Vasona Pump Station, including replacing aging pumps, motors, drives, valves, actuators, and electrical and control systems that have reached the end of their useful life; and adding one redundant pump. The project will accomplish the following objectives:

- Eliminate the risk of failure by replacing assets that have reached the end of their useful life, including four pumps (two 200 horsepower, two 400 horsepower) and associated motors, drives, electrical and control systems, as well as pump discharge and suction valves and actuators.
- Increase operational flexibility and prepare for future capacity needs by adding one redundant pump and increasing the size of all pumps.

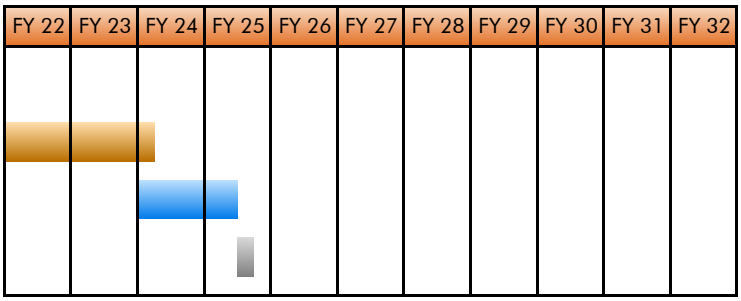
PROJECT LOCATION



SCHEDULE & STATUS

July 2017 to February 2025

Phase	Cost
Plan	1,174
Design	620
Construct	18,770
Closeout	70
	21,136



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
92264001-Vasona Pump Station Upgrade	1,646	717	2,387	15,900	486	0	0	0	21,136
with inflation	1,646	717	2,387	16,963	555	0	0	0	22,267

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
92264001-Vasona Pump Station Upgrade	3,113	715	1,465	922	16,963	555	0	0	0	22,267

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	22,267
Other Funding Sources	0
Total	**22,267**

OPERATING COST IMPACTS

The completion of this project is anticipated to reduce Valley Water maintenance costs about 50%; starting in FY25, operating and maintenance costs will be approximately $70,000 per year.

USEFUL LIFE: 50 Years

Treatment Facilities



Treatment Facilities

- 3 Treatment Plants
- 8 Capital Projects

Project PWTP Residuals Management
Program Water Supply - Treatment
Project No. 93234044 **Contact** Emmanuel Aryee earyee@valleywater.org



Existing settling pond and residuals building to be replaced with new residuals management facility



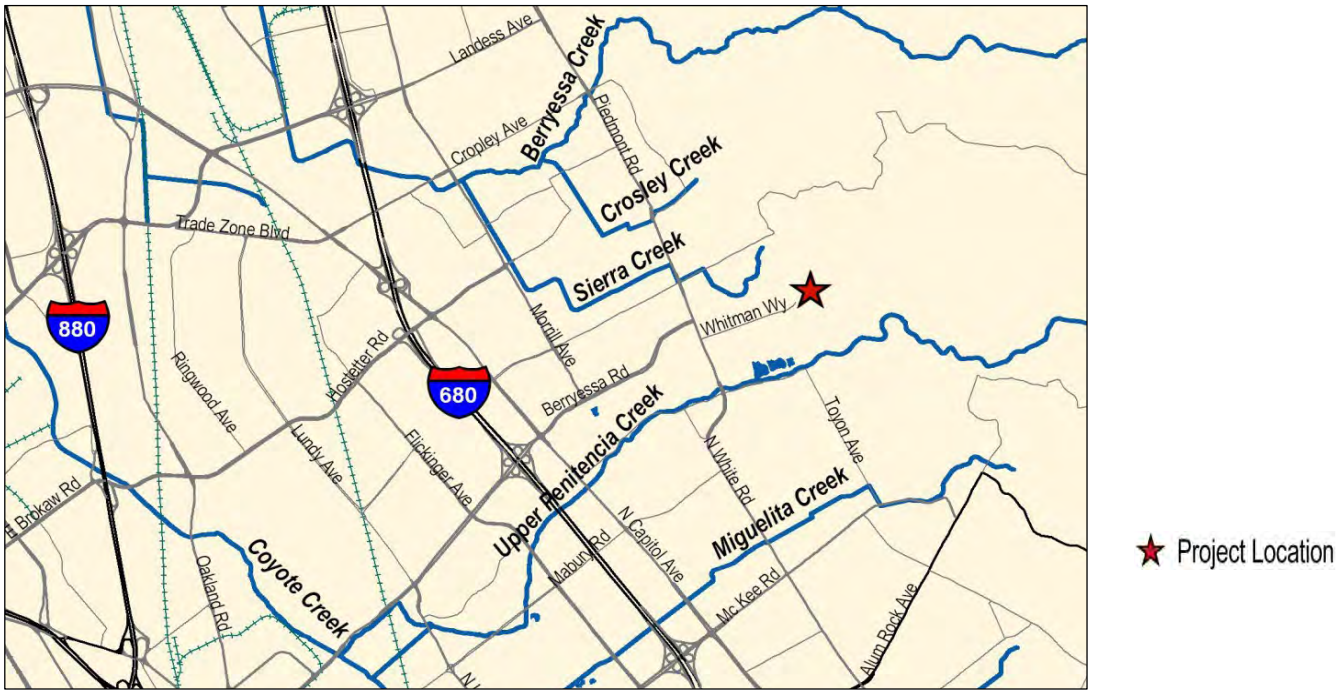
Existing belt press to be replaced with new residuals management facility

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Penitencia Water Treatment Plant (PWTP) residuals management process to accomplish the following objectives:

- Extend the useful life of the treatment plant.
- Improve the efficiency of the residual management processes.
- Minimize or eliminate (existing) operational constraints and impacts to the drinking water treatment process.
- Minimize risk of discharge violations.
- Improve the reliability of PWTP.
- Install new washwater clarification and residuals management facilities.

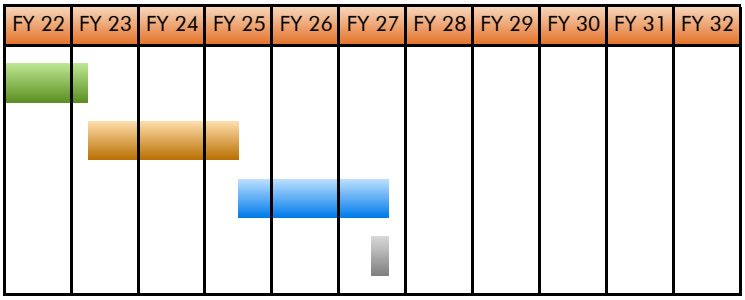
PROJECT LOCATION



SCHEDULE & STATUS

July 2020 to March 2027

Phase	Cost
Plan	3,227
Design	2,950
Construct	32,743
Closeout	75
	39,032



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
93234044-PWTP Residuals Management	226	2,050	1,857	1,424	8,843	16,371	8,261	0	39,032
with inflation	226	2,050	1,857	1,555	9,802	18,254	9,300	0	43,044

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
93234044-PWTP Residuals Management	683	1,593	0	1,857	1,555	9,802	18,254	9,300	0	43,044

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	43,044
Other Funding Sources	0
Total	**43,044**

OPERATING COST IMPACTS

Operating cost impacts will be determined during the construction phase.

USEFUL LIFE: Not Available

Project RWTP Residuals Remediation
Program Water Supply - Treatment
Project No. 93294051s **Contact** Emmanuel Aryee earyee@valleywater.org



Centrifuge for mechanical dewatering of sludge



New gravity thickeners and mix tank for sludge thickening and blending

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) residuals management processes and will accomplish the following objectives:

- Extend the useful life of the treatment plant.
- Improve the efficiency of the residual management processes.
- Improve the reliability of RWTP.

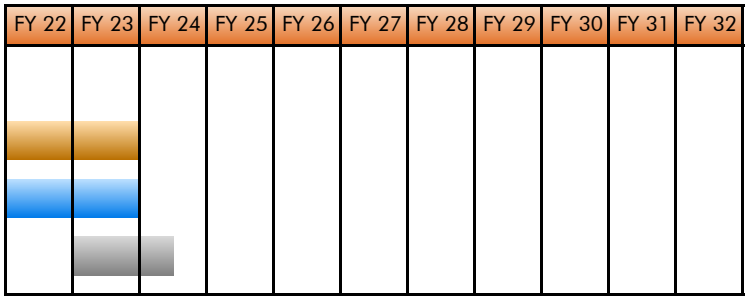
PROJECT LOCATION



SCHEDULE & STATUS

May 2018 to January 2024

Phase	Cost
Plan	2,233
Design	10,491
Construct	62,204
Closeout	181
	75,654



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
93294051-RWTP FRP Residuals Management	31,713	1,584	523	0	0	0	0	0	33,820
with inflation	31,713	1,584	523	0	0	0	0	0	33,820
93294058-RWTP Residuals Remediation	7,292	15,744	18,622	175	0	0	0	0	41,834
with inflation	7,292	15,744	18,622	191	0	0	0	0	41,850
TOTAL	**39,005**	**17,328**	**19,145**	**175**	**0**	**0**	**0**	**0**	**75,654**
with inflation	**39,005**	**17,328**	**19,145**	**191**	**0**	**0**	**0**	**0**	**75,670**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
93294051-RWTP FRP Residuals Management	38,573	0	5,276	0	0	0	0	0	0	38,573
93294058-RWTP Residuals Remediation	17,911	5,351	225	18,397	191	0	0	0	0	41,850
TOTAL	56,484	5,351	5,501	18,397	191	0	0	0	0	80,423

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $4,753,000. Excess funding will be returned to reserves upon project completion.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	80,423
Other Funding Source	0
Total	**80,423**

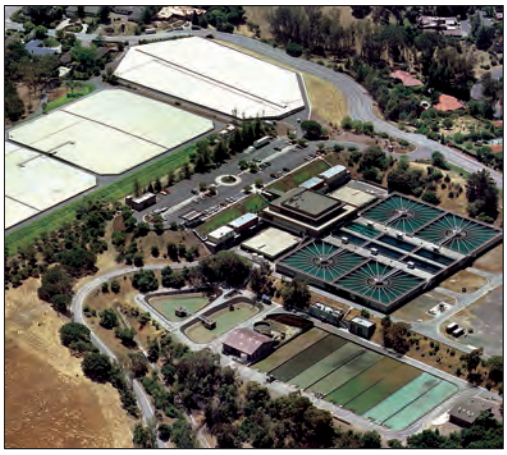
OPERATING COST IMPACTS

The completion of this project is anticipated to decrease annual operating costs by approximately $200,000 per year starting in FY24.

USEFUL LIFE:

Structures – 50 Years, Mechanical Equipment – 15 Years, Electrical Equipment – 10 Years

Project RWTP Reliability Improvement
Program Water Supply - Treatment
Project No. 93294057 **Contact** Emmanuel Aryee earyee@valleywater.org



Aerial view of the
Rinconada Water Treatment Plant facing west



Artist rendering of the aerial view of the Rinconada
Water Treatment Plant facing south after construction

PROJECT DESCRIPTION

This project plans, designs, and constructs new facilities at Rinconada Water Treatment Plant (RWTP) that will improve plant reliability by accomplishing the following objectives:

- Construct a new filter building.
- Implement raw water ozonation.
- Increase RWTP capacity to 100 million gallons per day.

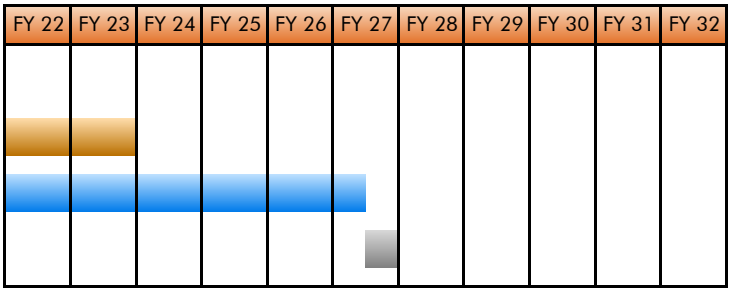
PROJECT LOCATION



SCHEDULE & STATUS

July 2009 to June 2027

Phase	Cost
Plan	1,959
Design	27,435
Construct	402,885
Closeout	120
	451,706



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
93294057-RWTP Reliability Improvement	250,257	13,925	14,340	51,941	54,560	53,251	13,432	0	451,706
with inflation	250,257	13,925	14,340	54,277	57,712	56,752	14,476	0	461,739

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
93294057-RWTP Reliability Improvement	251,869	20,617	8,304	6,036	54,277	57,712	56,752	14,476	0	461,739

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	461,739
Other Funding Source	0
Total	**461,739**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $1.4 million per year, beginning in FY26. Increases are for routine maintenance and operation of new equipment.

USEFUL LIFE:

Media – 20 Years, Structures – 50 Years, Equipment – 15 Years

Project	**RWTP Treated Water Valves Upgrade**
Program	Water Supply – Treatment
Project No.	93294056
Contact	Emmanuel Aryee earyee@valleywater.org



Example of a valve to be replaced or upgraded

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP), including seismically strengthening the chemical storage structures; replacing/upgrading the valves and appurtenances used to control treated water at the clearwells and the Rinconada Reservoir; repairing a damaged baffle wall in the Rinconada Reservoir; and installing a 48-inch magnetic flow meter on the treatment plant's treated water effluent pipeline. Consistent with the Facility Renewal Program, this project will accomplish the following objectives:

- Ensure plant operational reliability.
- Improve ability to maintain RWTP.
- Allow for better isolation of the treated water control valves for future work.
- Achieve greater accuracy in measuring treated water deliveries.
- Restore existing landscaping after drought.

PROJECT LOCATION

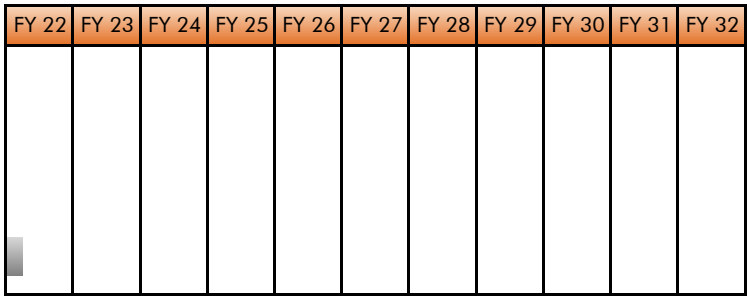


★ Project Location

SCHEDULE & STATUS

July 2009 to September 2021

Phase	Cost
Plan	465
Design	1,481
Construct	6,324
Closeout	168
	8,630



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
93294056-RWTP Treated Water Valves Upgrade	8,462	168	0	0	0	0	0	0	8,630
with inflation	8,462	168	0	0	0	0	0	0	8,630

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
93294056-RWTP Treated Water Valves Upgrade	8,626	4	0	0	0	0	0	0	0	8,630

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	8,630
Other Funding Source	0
Total	**8,630**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operations.

USEFUL LIFE: 40 Years

Project	**Small Capital Improvements, Water Treatment**
Program	Water Supply – Treatment
Project No.	93764004
Contact	Greg Williams gwilliams@valleywater.org



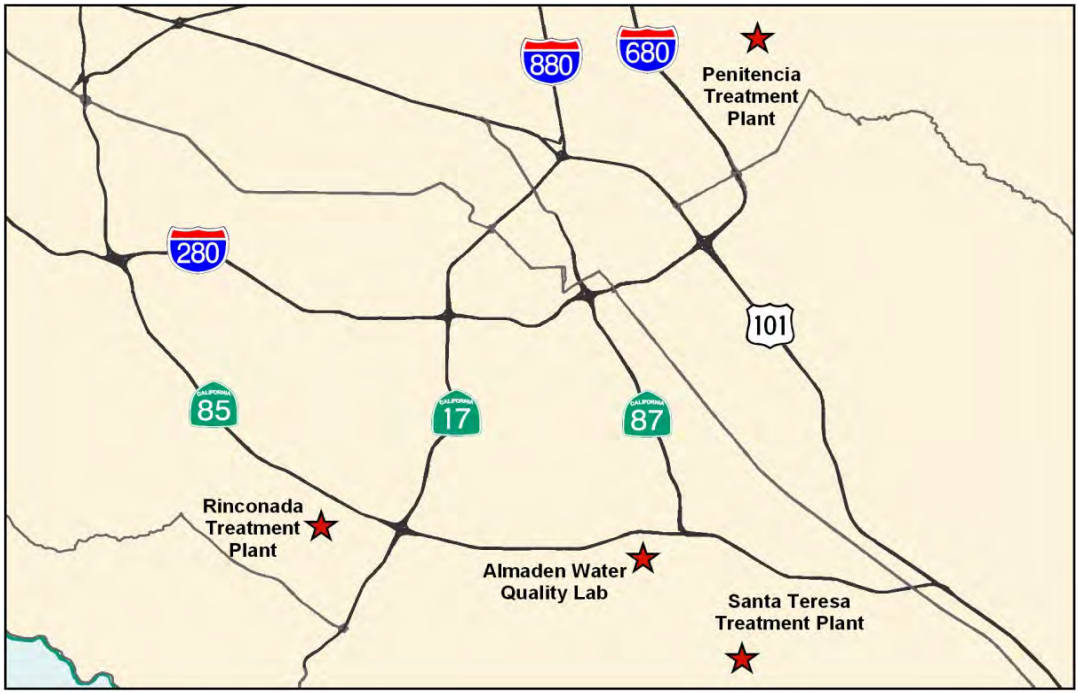
Sludge pond sediment removal at Santa Teresa Water Treatment Plant

PROJECT DESCRIPTION

This project provides resources for small capital improvements that replace or extend the life of an asset. This project implements a systematic approach of equipment replacement and renewal at the three water treatment plants and laboratory by designing and constructing improvements identified as part of Valley Water's 10-year Asset Management Program. Typical activities of this project include pump, motor, instrumentation and valve replacement; chemical tank repairs; and large-scale renewal and replacement activities like clarifier mechanism overhaul and replacement. Planned projects to complete for Santa Teresa Water Treatment Plant (STWTP), Penitencia Water Treatment Plan (PWTP), Rinconada Water Treatment Plant (RWTP), West Pipeline, and Silicon Valley Advanced Water Purification Center include:

- Provide engineering, supplies, and services support for the Sulfuric Acid Water Quality project.
- Purchase Laboratory Information Management System.
- Complete Small Capital Projects at STWTP, RWTP, PWTP and Campbell Well Field.

PROJECT LOCATION



SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
93764004-Small Capital Improvements, Water Treatment	n/a	10,911	4,509	7,380	2,808	2,854	4,266	13,787	46,515
with inflation	n/a	10,911	4,509	8,059	3,204	3,403	5,316	19,331	54,734

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
93764004-Small Capital Improvements, Water Treatment	n/a	10,911	0	4,509	8,059	3,204	3,403	5,316	19,331	54,734

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement Projects do not carry forward unspent funds from one fiscal year to the next. Excess funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	54,734
Other Funding Source	0
Total	**54,734**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**STWTP Filter Media Replacement**
Program	Water Supply - Treatment
Project No.	93284013
Contact	Emmanuel Aryee earyee@valleywater.org



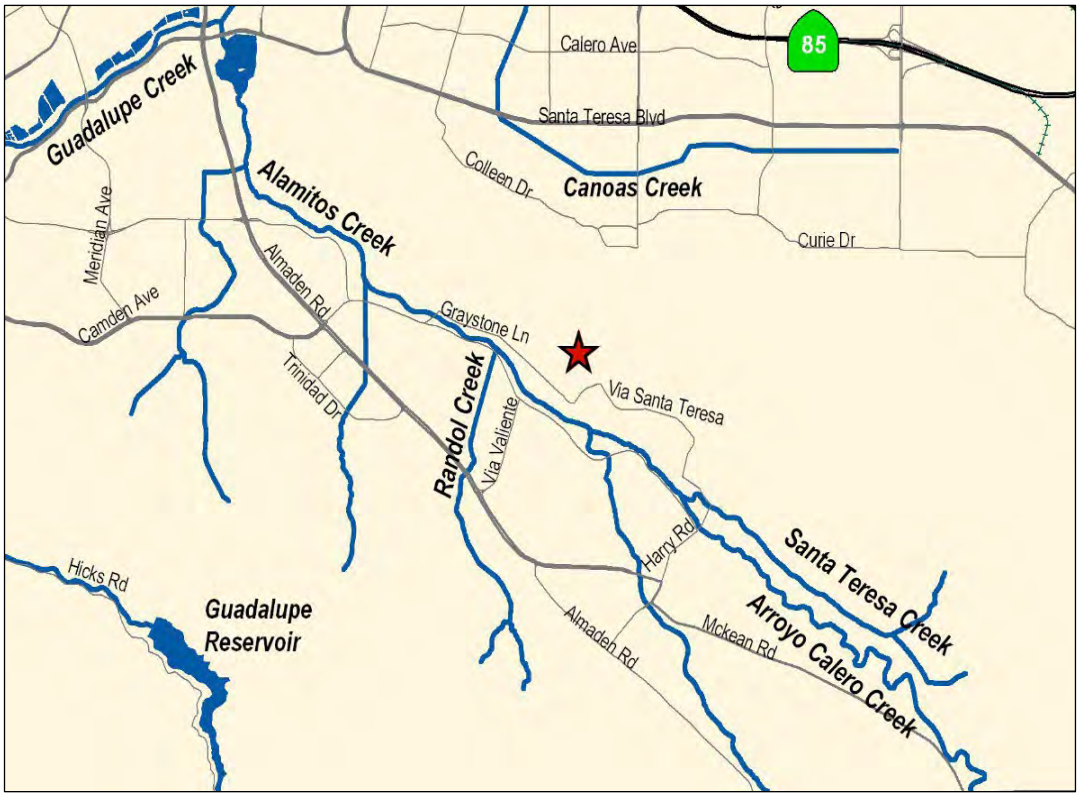
Santa Teresa Water Treatment Plant Filter Media Replacement

PROJECT DESCRIPTION

This project plans, designs and constructs improvements to the Santa Teresa Water Treatment Plant (STWTP) filter basins to ensure that STWTP maintains its operational capacity and continues to effectively serve customers, retailers, and the public with safe and high-quality drinking water. This project will accomplish the following objectives:

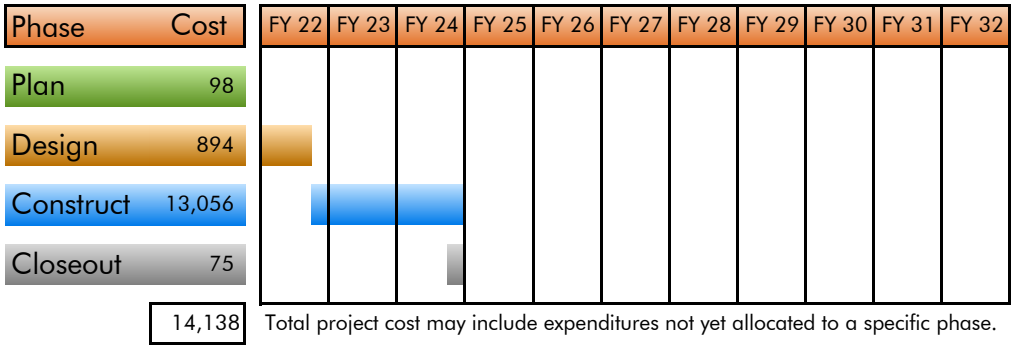
- Extend the service life of STWTP filter system.
- Replace the filter media in all twelve filters with sand and granular activated carbon.
- Replace the filter's damaged or deteriorated collection nozzles.

PROJECT LOCATION



SCHEDULE & STATUS

June 2019 to June 2024



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
93284013-STWTP Filter Media Replacement	332	2,050	6,671	5,085	0	0	0	0	14,138
with inflation	332	2,050	6,671	5,280	0	0	0	0	14,333

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
93284013-STWTP Filter Media Replacement	647	2,813	1,078	5,593	5,280	0	0	0	0	14,333

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	14,333
Other Funding Sources	0
Total	**14,333**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 10-15 Years

Project	**Water Treatment Plant Electrical Improvement**
Program	Water Supply - Treatment
Project No.	93084004
Contact	Emmanuel Aryee earyee@valleywater.org



Motor control center switchboard

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to ensure the safety, operational reliability and maintainability of electrical systems at Penitencia Water Treatment Plant (PWTP) and Santa Teresa Water Treatment Plant (STWTP). The electrical systems will be upgraded to accomplish the following objectives:

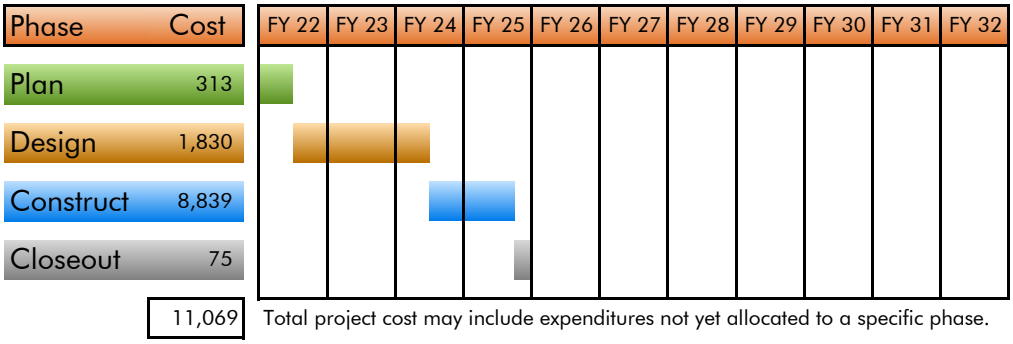
- Extend the service life of PWTP's and STWTP's electrical distribution systems.
- Improve reliability and reduce maintenance at PWTP and STWTP.

PROJECT LOCATION



SCHEDULE & STATUS

March 2020 to April 2025



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
93084004-Water Treatment Plant Electrical Improvement	395	1,131	2,412	5,328	1,803	0	0	0	11,069
with inflation	395	1,131	2,412	5,695	1,993	0	0	0	11,626

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
93084004-Water Treatment Plant Electrical Improvement	642	884	0	2,412	5,695	1,993	0	0	0	11,626

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	11,626
Other Funding Sources	0
Total	**11,626**

OPERATING COST IMPACTS

Operating costs will be determined at the conclusion of the design phase.

USEFUL LIFE: 30+ Years

Project	**WTP Master Plan Implementation Project**
Program	Water Supply - Treatment
Project No.	93044001
Contact	Samuel Bogale sbogale@valleywater.org



This project will implement improvements in all four water treatment facilities operated by Valley Water.

PROJECT DESCRIPTION

This project will develop a comprehensive 30-year implementation master plan to determine the projects needed to repair, replace and/or upgrade Valley Water's water treatment plant infrastructure, address the increasingly stringent water quality regulations, and integrate with the recently completed Water Supply Master Plan. The implementation project will conclude with a programmatic environmental impact report. Facilities will include the Rinconada, Santa Teresa, Penitencia Water Treatment Plants and the Advanced Water Purification Center.

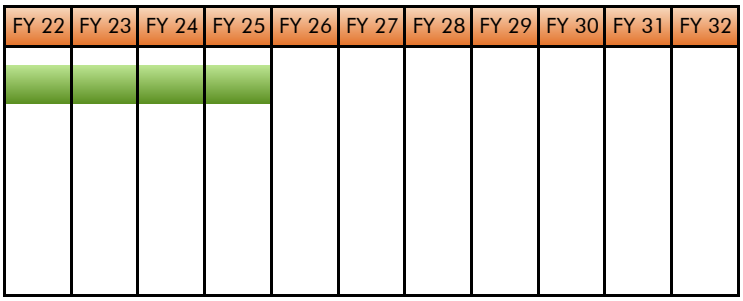
PROJECT LOCATION



SCHEDULE & STATUS

July 2020 to June 2025

Phase	Cost
Plan	9,082
Design	-
Construct	-
Closeout	-
	9,082



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
93044001-WTP Master Plan Implementation Project	291	4,381	732	2,928	750	0	0	0	9,082
with inflation	291	4,381	732	3,197	856	0	0	0	9,457

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
93044001-WTP Master Plan Implementation Project	1,394	3,278	0	732	3,197	856	0	0	0	9,457

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	9,457
Other Funding Sources	0
Total	**9,457**

OPERATING COST IMPACTS

This project is not anticipated to increase or decrease annual operating costs, as the project is a planning effort that will be used to identify future repair and upgrade projects to Water Treatment Plants. Projects identified through this implementation project will have their own operating cost impacts identified as they come online.

USEFUL LIFE:

Not Available

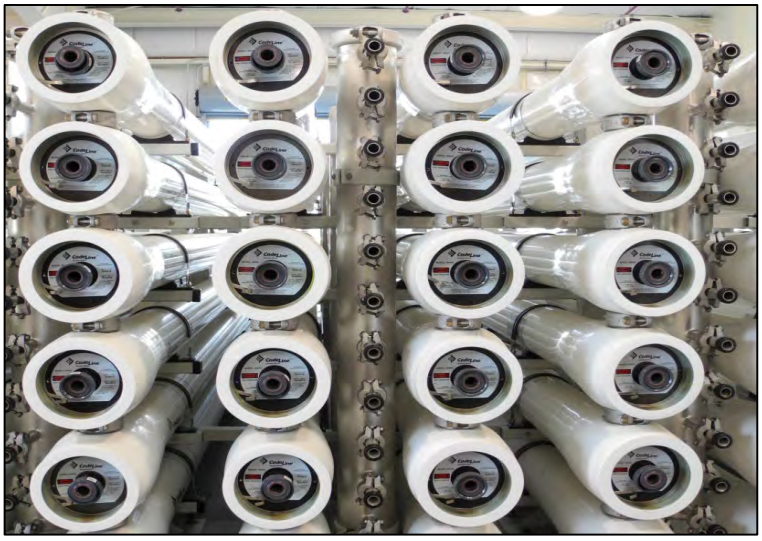
Recycled & Purified Water Facilities



Recycled Water Facilities

- 4 Source Plants (Shared Ownership)
- 1 Pipeline
- 3 Capital Projects
- 1 Advanced Water Purification Center

Project	**Purified Water Project**
Program	Water Supply – Recycled Water
Project No.	91304001s
Contact	Vincent Gin vgin@valleywater.org



Reverse osmosis membranes used for water purification

PROJECT DESCRIPTION

This project plans, designs, and constructs new infrastructure, proposed in Valley Water's 2040 Water Supply Master Plan, to accomplish the following objectives:

- Expand Valley Water's long-term water supply portfolio.
- Ensure a drought-proof and reliable water supply for Silicon Valley.

Project elements may include, but are not limited to:

- Design and construction of an Advanced Water Purification Facility (AWPF) located in Palo Alto, pump station, water conveyance pipelines to the existing Los Gatos Recharge System (LGRS) complex located in the City of Campbell, lateral pipelines and associated facilities.
- The AWPF will produce up to 11,200 acre-feet per year (AFY) of purified water for indirect potable reuse at the LGRS.

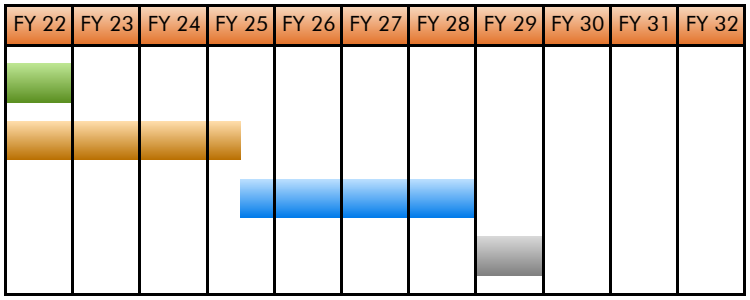
PROJECT LOCATION



SCHEDULE & STATUS

April 2015 to June 2029

Phase	Cost
Plan	18,013
Design	77,011
Construct	557,792
Closeout	151
	666,043



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
91304001 - Purified Water Project	23,199	6,345	40,998	37,542	158,682	138,261	131,126	129,376	665,529
with inflation	23,199	6,345	40,998	40,997	175,571	157,015	153,022	155,405	752,552
91284009 - Silicon Valley Advanced Water Purification Center Expansion	479	0	0	0	0	0	0	0	479
with inflation	479	0	0	0	0	0	0	0	479
91384001 - Purified Water Pipelines	35	0	0	0	0	0	0	0	35
with inflation	35	0	0	0	0	0	0	0	35
TOTAL	**23,713**	**6,345**	**40,998**	**37,542**	**158,682**	**138,261**	**131,126**	**129,376**	**666,043**
with inflation	**23,713**	**6,345**	**40,998**	**40,997**	**175,571**	**157,015**	**153,022**	**155,405**	**753,066**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
91304001 - Purified Water Project	26,595	2,949	0	40,998	40,997	175,571	157,015	153,022	155,405	752,552
91284009 - Silicon Valley Advanced Water Purification Center Expansion	479	0	0	0	0	0	0	0	0	479
91384001 - Purified Water Pipelines	35	0	0	0	0	0	0	0	0	35
TOTAL	**27,109**	**2,949**	**0**	**40,998**	**40,997**	**175,571**	**157,015**	**153,022**	**155,405**	**753,066**

Adjusted Budget includes adopted budget plus a planned budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	753,066
Other Funding Sources	0
Total	**753,066**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

USEFUL LIFE: Not Available

Project	**Land Rights - South County Recycled Water Pipeline**
Program	Water Supply – Recycled Water
Project No.	91094001
Contact	Emmanuel Aryee earyee@valleywater.org



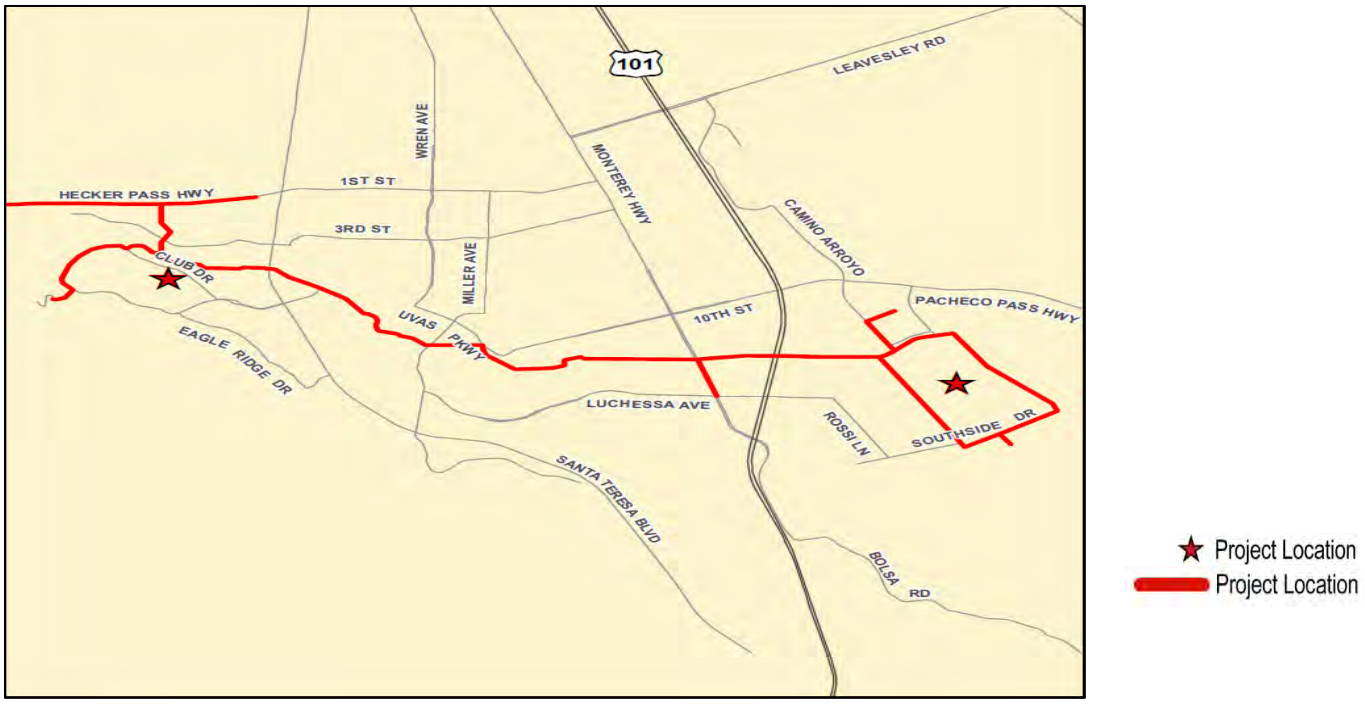
Restricted land access puts recycled water delivery at risk.

PROJECT DESCRIPTION

Valley Water is contractually required to maintain and operate the recycled water pipeline in South County as a part of an agreement with the South County Regional Wastewater Authority (SCRWA). It has been determined that there are insufficient and expired land rights to Valley Water's recycled water pipeline in segments near the Eagle Ridge Golf Course and along Hecker Pass Road, which places Valley Water in a precarious legal position. In the event of a pipe failure, Valley Water's rights to legally operate and maintain the recycled water conveyance system may be challenged; thus, our commitment to deliver recycled water to its South County customers is at risk.

Valley Water's ongoing implementation of the SCRWA Recycled Water Master Plan is impetus to affirm the pipeline easements and Valley Water access rights. Delaying resolution of this outstanding issue may cause difficulties in maintaining the pipelines, and will negatively impact our long-term commitment to increase recycled water use in South County.

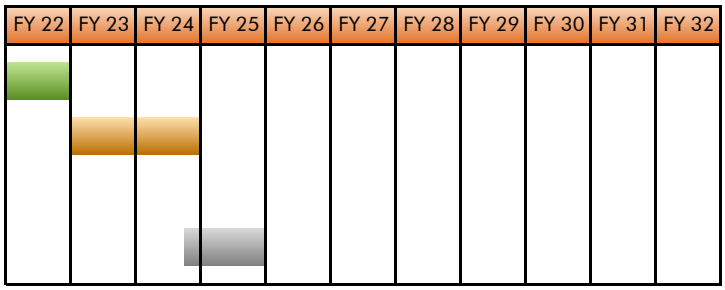
PROJECT LOCATION



SCHEDULE & STATUS

July 2020 to June 2025

Phase	Cost
Plan	868
Design	5,792
Construct	-
Closeout	28
	6,693



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
91094001-Land Rights - South County Recycled Water Pipeline	5	548	3,260	2,880	0	0	0	0	6,693
with inflation	5	548	3,260	3,145	0	0	0	0	6,958

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
91094001-Land Rights - South County Recycled Water Pipeline	203	350	0	3,260	3,145	0	0	0	0	6,958

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	6,958
Other Funding Sources	0
Total	**6,958**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: All land rights obtained will be held in perpetuity.

Project	**South County Recycled Water Pipeline**
Program	Water Supply – Recycled Water
Project No.	91094007s
Contact	Emmanuel Aryee earyee@valleywater.org



Purple recycled water pipe waiting to be laid during construction of the Immediate Term project

PROJECT DESCRIPTION

This project plans, designs, and constructs water recycling systems based on the South County Recycled Water Master Plan (SCRWMP) accepted in December 2004, and updated in 2015, to improve system redundancy, reliability, and capacity. The current SCRWMP report presents a 20-year capital program for expanding water recycling in South County in three phases; Immediate Term, Short Term, and Long Term:

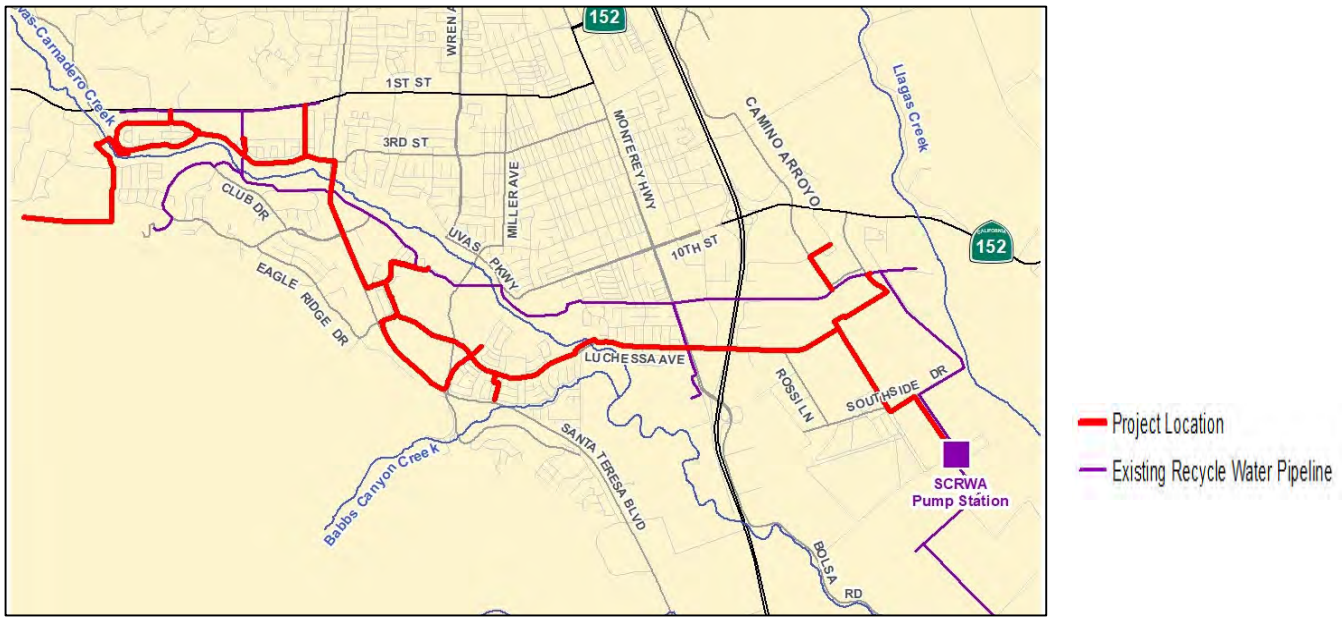
Completed projects:

- 91094007 Recycled Water South County Masterplan (2004 Immediate Term) which included design and construction of recycled water storage, pumping, and distribution facilities for agricultural use near the South County Regional Wastewater Authority (SCRWA) treatment plant.
- 91094008 Recycled Water South County Masterplan (2004 Short Term Phase 1A), installation of approximately 3,000 feet of 30-inch and 36-inch pipeline.

Projects currently underway:

- 91094009 South County Recycled Water Pipeline (2004 Short Term 1B/2A/1C/2B) will construct an additional 18,500 linear feet of pipeline.
- 91094010 South County Recycled Water Pipeline (2004 Short Term Phase 2) will be completed through cost-sharing opportunities with the City of Gilroy and land developers to construct approximately 3,900 linear feet of 30-inch diameter pipe.
- 91094010 South County Recycled Water Pipeline (2004 Long Term Phase 3) to be completed through cost-sharing opportunities with the land developers through coordination by the City of Gilroy to construct approximately 9,200 linear feet of 24-inch diameter pipe.

PROJECT LOCATION

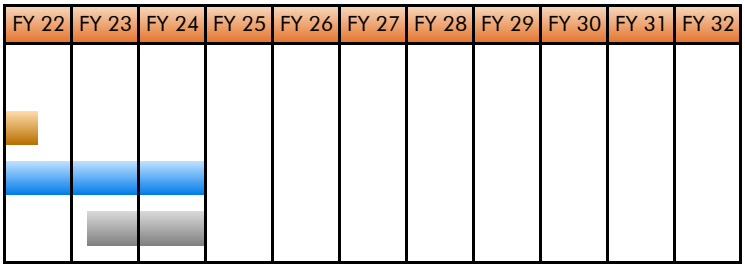


SCHEDULE & STATUS

January 2012 to June 2024

The schedule chart shows Short-Term Phase 1B and Phase 2 projects only. The Immediate-Term and Short-Term Phase 1A projects are complete.

Phase	Cost
Plan	3,068
Design	11,257
Construct	37,517
Closeout	155
	59,779



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
91094007-Recycled Water South County Masterplan - Immediate Term	3,257	0	0	0	0	0	0	0	3,257
with inflation	3,257	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Masterplan - Short Term 1A	5,391	0	0	0	0	0	0	0	5,391
with inflation	5,391	0	0	0	0	0	0	0	5,391
91094009-South County Recycled Water Pipeline - Short Term 1B	10,841	15,377	15,936	358	0	0	0	0	42,512
with inflation	10,841	15,377	15,936	425	0	0	0	0	42,579
91094010-South County Recycled Water Pipeline - Short Term 2	7,552	544	523	0	0	0	0	0	8,619
with inflation	7,552	544	523	0	0	0	0	0	8,619
TOTAL	**27,041**	**15,921**	**16,459**	**358**	**0**	**0**	**0**	**0**	**59,779**
with inflation	**27,041**	**15,921**	**16,459**	**425**	**0**	**0**	**0**	**0**	**59,846**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
91094007-Recycled Water South County Masterplan - Immediate Term	3,257	0	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Masterplan - Short Term 1A	5,391	0	0	0	0	0	0	0	0	5,391
91094009-South County Recycled Water Pipeline - Short Term 1B	20,049	15,310	9,141	6,795	425	0	0	0	0	42,579
91094010-South County Recycled Water Pipeline - Short Term 2	8,108	0	12	511	0	0	0	0	0	8,619
TOTAL	**36,805**	**15,310**	**9,153**	**7,306**	**425**	**0**	**0**	**0**	**0**	**59,846**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	52,040
South County Regional Wastewater Authority	811
United States Bureau of Reclamation (USBR) ARRA	1,295
United States Bureau of Reclamation (USBR) Title 16	5,700
Total	**59,846**

OPERATING COST IMPACTS

Estimated Valley Water share of the operating and maintenance costs are $8,000 per year for the Immediate Term Phase, beginning in FY07 and an additional $25,000 for the Short-Term Phase 1, beginning in FY19.

USEFUL LIFE: Pipelines–50 Years, Pumps–20 Years

Flood Protection

Flood Protection Capital Improvements

FLOOD PROTECTION OVERVIEW

Of the approximately 800 miles of creeks in Santa Clara County, Valley Water has jurisdiction over and manages approximately 275 miles to meet the Board's Ends Policy E–3, "Natural flood protection is provided to reduce risk and improve health and safety for residents, businesses, and visitors, now and into the future." Valley Water's goals are further defined in E-3.1, "Maintain flood protection facilities to design levels of protection" and E-3.2, "Assist people, businesses, schools, and communities to prepare for, respond to, and recover from flooding through equitable and effective engagement." The 275 miles of creeks are located in five watersheds: Lower Peninsula, West Valley, Guadalupe, Coyote, and Uvas/Llagas. Valley Water administers an asset management program for its flood protection infrastructure. The program includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended throughout its useful life.

Fifty years of flood protection management has significantly reduced the intensity and frequency of flooding in Santa Clara County. By 2005, Valley Water had provided flood protection to 93,253 of the 166,526 parcels in the floodplain and another approximately 10,445 have been protected since then.

The voters in Santa Clara County have supported Valley Water's flood protection efforts by approving benefit assessment funding in 1982, 1986, and 1990. Voters also approved three special parcel taxes. In 2000, voters approved the Clean, Safe Creeks and Natural Flood Protection Plan (Clean, Safe Creeks). The Clean, Safe Creeks Plan was replaced by the Safe, Clean Water and Natural Flood Protection Program, which voters approved in 2012 (2012 Safe, Clean Water). In 2020, voters approved the renewal of the Safe, Clean Water Program, which replaced the 2012 Safe, Clean Water Program in entirety. Unlike the first two special parcel taxes, which were set to sunset in 15-years from the date of implementation, the renewed Safe, Clean Water Program will continue until repealed by voters or until the Board determines the funding is no longer needed.

The renewed Safe, Clean Water Program - Fund 26, along with the Watershed and Stream Stewardship (1% ad valorem property tax) - Fund 12, are the two primary funding sources for flood protection projects. Listed by watershed are the completed and current flood protection capital improvements, moving upstream from the completed downstream work or starting new work on creeks that have not had flood protection work.

Lower Peninsula Watershed

Major Capital Improvements Completed

- San Francisquito Creek from the S.F. Bay to Highway 101 (Safe, Clean Water)
- San Francisquito Creek from Highway 101 to Searsville Dam (Safe, Clean Water)
- Adobe Creek from El Camino to West Edith Ave.
- Matadero Creek from Palo Alto Flood Basin to Barron Creek

Major Capital Improvements Identified in the CIP

- Palo Alto Flood Basin Structure Improvements
- Permanente Creek from S.F. Bay to Foothill Expressway (2012 Safe, Clean Water)

West Valley Watershed

Major Capital Improvements Completed

- Calabazas Creek from Guadalupe Slough to Wardell Road
- San Tomas Creek from Southern Pacific Railroad to Cabrillo Avenue
- Saratoga Creek from San Tomas Creek to Lawrence Expressway

Major Capital Improvements Identified in the CIP

- Sunnyvale East and West Channels (Safe, Clean Water)

Guadalupe Watershed

Major Capital Improvements Completed

- Guadalupe River–Lower from Alviso Marina to Interstate 880
- Guadalupe River–Downtown from Interstate 880 to Interstate 280

Flood Protection Capital Improvements

Major Capital Improvements Identified in the CIP

- Guadalupe River–Upper, Interstate 280 to Blossom Hill Road (Safe, Clean Water)
- Guadalupe River, Tasman Drive to I-880

Coyote Watershed

Major Capital Improvements Completed

- Coyote Creek from S.F. Bay to Montague Expressway
- Lower Penitencia Creek from Coyote Creek to Tasman Drive
- Lower Silver Creek from Coyote Creek to Cunningham Ave. (Reaches 1-6)
- Cunningham Flood Detention Certification
- Berryessa Creek from Calaveras Boulevard to Interstate 680 (2012 Safe, Clean Water)

Major Capital Improvements Identified in the CIP

- Berryessa Creek from Lower Penitencia Creek to Calaveras Boulevard (Safe, Clean Water)
- Coyote Creek Montague Expressway to Tully Road (Safe, Clean Water)
- Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks
- Lower Silver Creek from Interstate 680 to Cunningham Ave., (Reaches 4-6)
- Upper Penitencia Creek from Coyote Creek to Dorel Drive (Safe, Clean Water)

Uvas/Llagas Watershed

Major Capital Improvements Completed

- Llagas Creek–Lower from Pajaro River to Buena Vista Avenue
- Uvas Creek

Major Capital Improvements Identified in the CIP

- Llagas Creek-Lower, Capacity Restoration from Buena Vista Avenue to Pajaro River
- Llagas Creek–Upper, Buena Vista Avenue to Llagas Road (Safe, Clean Water)

Multiple Watersheds

Major Capital Improvements Identified in the CIP

- San Francisco Bay Shoreline (Safe, Clean Water)
- Watershed Asset Rehabilitation Program

CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February.

The Board then authorizes release of the Draft CIP to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the Final CIP in May.

A financial analysis of the Watershed and Stream Stewardship Fund and Safe, Clean Water Fund, the funding sources for flood protection capital improvements, was conducted to determine if there are limitations to funding all of the projects proposed for the FY 2023-27 CIP.

Funding required for portions of several CIP projects is contingent on grants and partnership agreements that are under development and not currently secured. As Valley Water works through the process to secure funding, the project schedules may be adjusted. Projects with unsecured funding include:

- San Francisquito Creek, upstream of Hwy 101
- Upper Llagas, portions of Phase 2B (Reaches 6, 7b, 8, and 14)

Further, many of the flood protection projects under the renewed Safe, Clean Water Program include key performance indicators (KPIs) for a preferred project, which requires federal funding, and for a local-funding only version of the project, which can be constructed if federal funding is not received.

Operations and Maintenance Costs

It is understood that new capital projects have an impact on future operations and maintenance, and this is included in the financial analysis. Periodically throughout the project, projections of this impact are updated to reflect changes in the project elements.

Flood Protection Capital Improvements

Significant Project Updates from the Prior Year

Listed here are the changes to projects from the FY 2022-26 Adopted CIP:

- The Palo Alto Flood Basin Tide Gate Structure Improvements Project has increased in cost by $1.04 million due to increased staff labor for coordinating and discussing potential required tribal and archaeological monitoring. More time is needed to acquire all necessary project permits; negotiate reasonable permit conditions; and procure the necessary materials.

- The San Francisco Bay Shoreline Project EIA 11 has decreased in cost by $38.77 million due to the removal of planned expenditures associated with Reaches 4-5 real estate acquisition.

- The San Francisquito Flood Protection Project (Construction SF Bay to Middlefield Rd.) has been updated to extend the schedule by four years to accommodate the additional efforts needed to acquire state and federal regulatory permits and factor in the three-year plant establishment period. The total Project cost has increased by $12.61 million due to increased right-of-way fees, additional construction activities and and top of bank treatments.

- The Guadalupe River (Tasman Drive to Interstate 880) Project has increased by $3.26 million due to inflation. Planned expenditures have been allocated to future years due to a delay in feasibility alternatives review and an extension of the design schedule.

- The Berryessa Creek (Lower Penitencia Creek to Calaveras Boulevard, Phase 2) Project has increased in cost by $1.50 million due to higher-than-anticipated costs for construction staff.

- The Lower Penitencia Creek (Berryessa Creek to Coyote Creek) Project has increased in cost by $6.89 million. The total Project cost increase is to restore funds that were previously reallocated to the Shoreline Project.

- The Upper Llagas Creek (LERRDs) Project has increased in cost by $3.05 million due to the discovery of underground utilities and the necessary relocation thereof. Cost increases are also associated with the increase of cost for construction materials, as well as the addition of previously unforeseen real estate services.

The Safe, Clean Water Program

The Renewed Safe, Clean Water Program, approved by voters in 2020, began in FY 2021-22 and includes the following flood protection projects:

- San Francisquito Creek, SF Bay to Middlefield Road
- Sunnyvale East & West Channels
- Upper Guadalupe River, I-280 to Blossom Hill Road
- Berryessa Creek from Lower Penitencia Creek to Calaveras Boulevard - Phase 3
- Coyote Creek, Montague Expy. to I-280
- Upper Penitencia Creek, Coyote to Dorel Drive
- Llagas Creek-Upper, Buena Vista Avenue to Llagas Road
- San Francisco Bay Shoreline - Design and Partial Construction of EIA 11 and Planning for other EIAs

With the exception of the Berryessa Creek from Lower Penitencia Creek to Calaveras Boulevard - Phase 3, each of these projects were also included in the 2012 Safe, Clean Water Program. Additionally, the following project is considered complete under the 2012 Safe, Clean Water Program, as the KPIs had been delivered, but is still included in the CIP as it is in the close-out phase:

- Permanente Creek, San Francisco Bay to Foothill Expy. (2012 Safe, Clean Water)

For more information about the Safe, Clean Water Program visit valleywater.org. Please see Appendix C for the implementation schedule for the Renewed Program.

Flood Protection Capital Improvements

The following table is a project funding schedule for flood protection capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2021-22.

Flood Protection Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
	LOWER PENINSULA WATERSHED										
10394001	Palo Alto Flood Basin Tide Gate Structure Improvements	4,476	3,061	2,369	-	9,172	8,752	8,867	5,005	-	39,333
10244001s	Permanente Creek, SF Bay to Foothill Expressway	112,281	450	885	337	56	-	-	-	-	113,124
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam (E5)	63,022	12,821	13,143	-	26,586	16,189	388	405	121	119,532
	WEST VALEY WATERSHED										
26074002	Sunnyvale East and West Channels (E2)	37,471	-	14,034	931	13,583	11,598	6,551	249	-	70,383
	GUADALUPE WATERSHED										
30154019	Guadalupe River Tasman Dr - I-880	2,918	2,695	1,631	-	1,575	1,229	30,773	29,934	30,046	99,170
26154001s	Guadalupe River–Upper, I-280 to Blossom Hill Road (E8)	134,641	563	20,135	30	33	34	36	18,386	21,298	175,021
	COYOTE WATERSHED										
26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	53,260	-	11,670	-	769	-	-	-	-	54,029
40174004s	Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd	122,982	12,789	3,261	1,907	360	268	2,015	2,024	70,237	212,582
26174043	Coyote Creek, Montague Expressway to Tully Road (E1)	17,235	2,845	-	6,373	10,790	21,805	3,781	-	-	62,829
40264011	Cunningham Flood Detention Certification	11,810	30	-	-	-	-	-	-	-	11,840
40334005	Lower Penitencia Ck Improvements, Berryessa to Coyote Cks.	19,032	7,686	14	8,150	82	86	89	-	-	35,125
40264007s	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	101,472	26	-	52	-	-	-	-	-	101,550
40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	20,393	2,636	6,579	-	-	-	1,460	3,963	4,371	32,823
	UVAS LLAGAS WATERSHED										
50284010	Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	6,947	-	2,633	-	-	3,035	3,360	374	-	13,716
26174051s	Llagas Creek–Upper, Buena Vista Avenue to Llagas Road (E6)	171,543	61,353	3,604	55,549	32,621	9,286	1,431	-	-	331,783
	MULTIPLE WATERSHEDS										
00044026s	San Francisco Bay Shoreline (E7)	83,638	24,036	2,325	18,697	21,660	4,707	9,898	10,219	6,772	179,627
62084001	Watersheds Asset Rehabilitation Program	39,362	10,911	623	6,741	8,138	6,487	6,697	9,602	86,074	174,012
	TOTAL	1,002,483	141,902	82,906	98,767	125,425	83,476	75,346	80,161	218,919	1,826,479

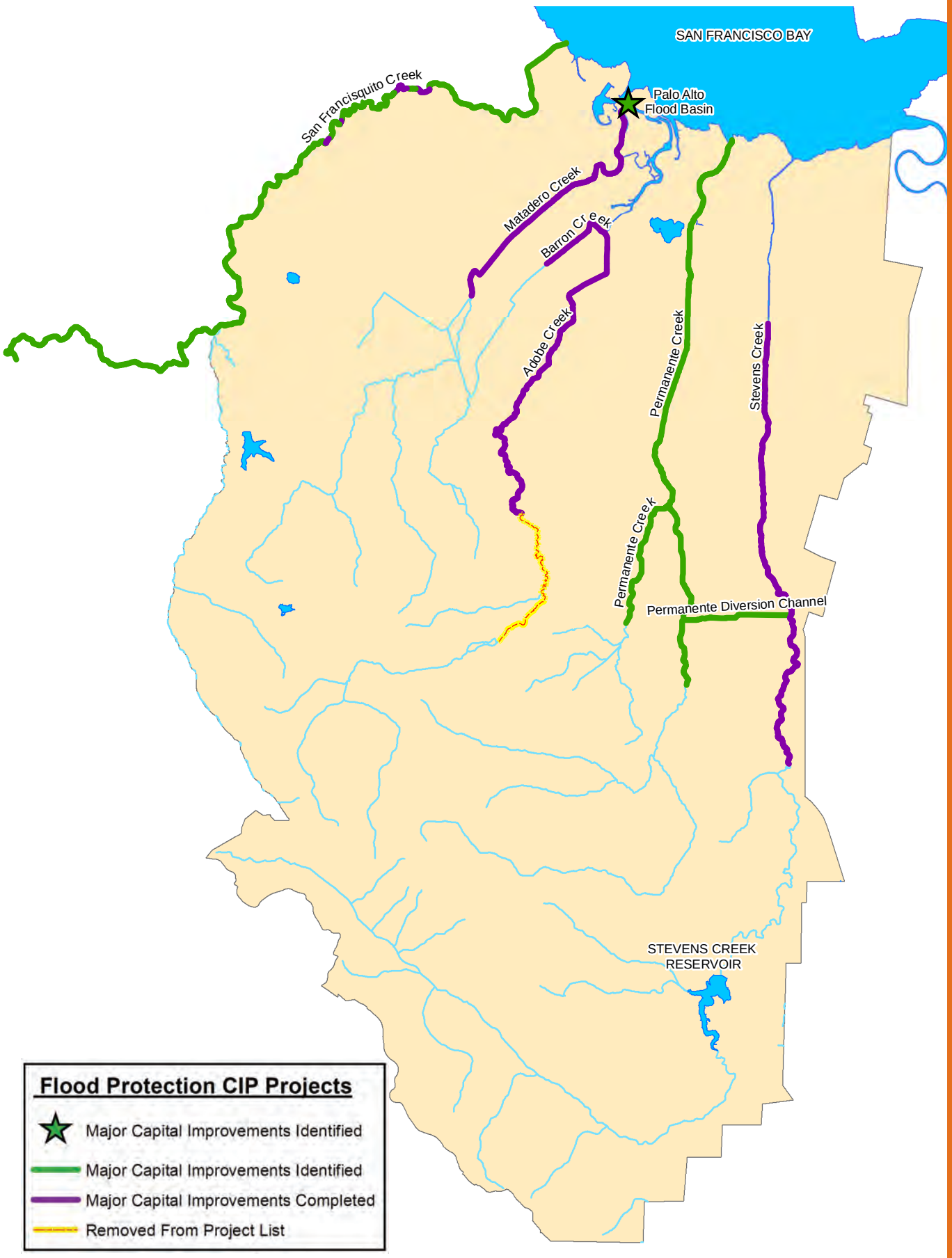
The following table shows funding requirements from each funding source for flood protection capital improvements.

Flood Protection - Funding Sources ($K)

Fund Number	FUND NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
12	Watershed Stream Stewardship Fund	405,651	59,280	12,856	33,079	37,066	19,971	51,920	46,939	177,451	831,357
26	Safe, Clean Water and Natural Flood Protection Fund	596,832	82,622	70,050	65,688	88,359	63,505	23,426	33,222	41,468	995,122
	TOTAL	1,002,483	141,902	82,906	98,767	125,425	83,476	75,346	80,161	218,919	1,826,479

FY 2021-22 Funds to be reappropriated

Lower Peninsula Watershed



Project	**Palo Alto Flood Basin Tide Gate Structure Replacement**
Program	Flood Protection - Lower Peninsula Watershed
Project No.	10394001
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



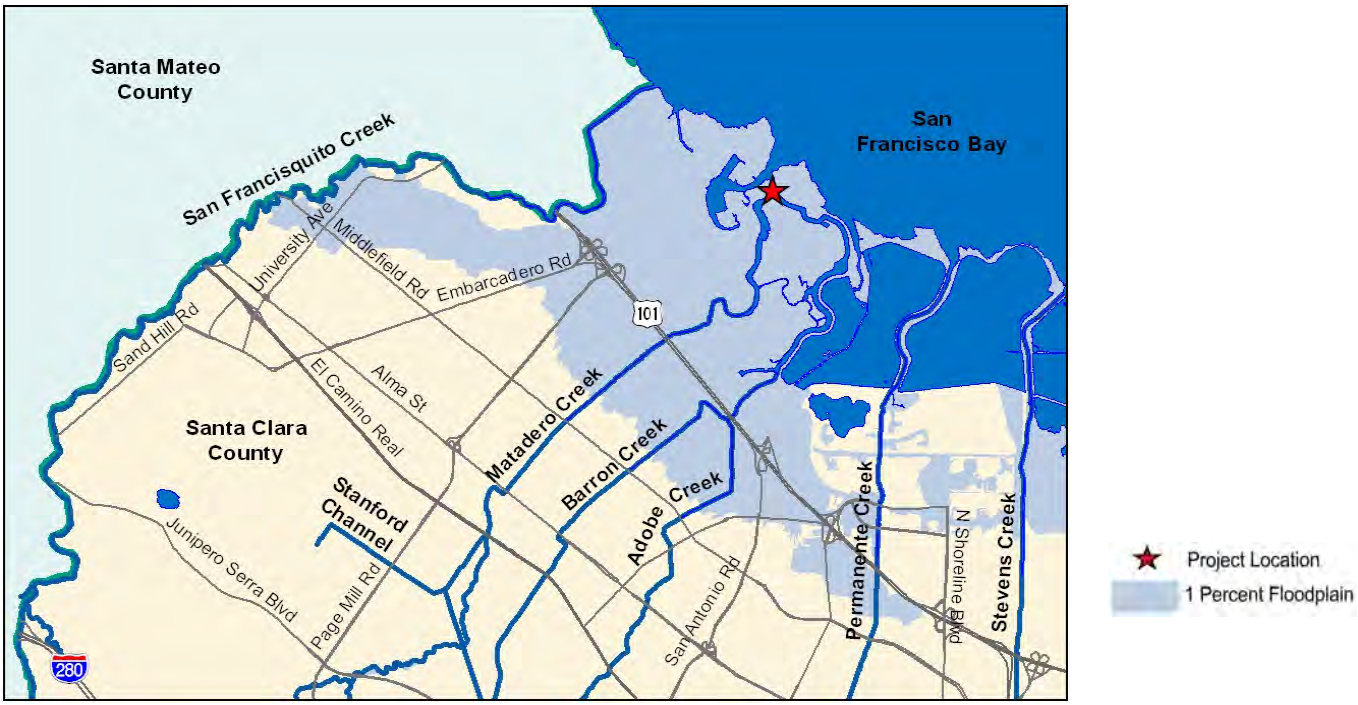
View from the west side of the Palo Alto tide gates facing east

PROJECT DESCRIPTION

This project plans, designs, and constructs a replacement tide gate structure for the Palo Alto Flood Basin to accomplish the following objectives:

- Replace existing tide gate structure to provide existing or better level of service for Matadero, Adobe and Barron Creeks.
- Replace existing tide gate structure to protect property and infrastructure from coastal flooding which could result if the existing structure fails.
- Maximize gravity drainage opportunities to practicably address impacts to flood protection facilities due to future sea rise and the 100-year fluvial flood in cooperation with local planning efforts.
- Limit impacts to existing habitat areas within the Palo Alto Flood Basin.

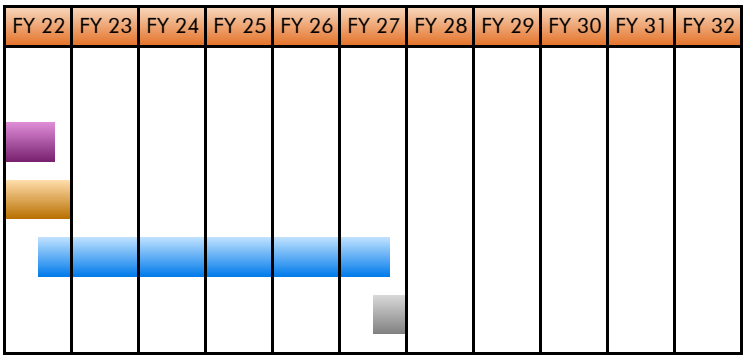
PROJECT LOCATION



SCHEDULE & STATUS

November 2018 to April 2027

Phase	Cost
Plan	1,156
Permits	731
Design	2,403
Construct	33,169
Closeout	90
	37,624



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
10394001-Palo Alto Flood Basin Tide Gate Structure Replacement	3,671	1,498	1,666	9,460	8,320	8,360	4,649	0	37,624
with inflation	3,671	1,498	1,666	9,875	8,752	8,867	5,005	0	39,332

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
10394001-Palo Alto Flood Basin Tide Gate Structure Replacement	4,476	3,061	2,369	0	9,172	8,752	8,867	5,005	0	39,332

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	39,332
Other Funding Sources	0
Total	**39,332**

OPERATING COST IMPACTS

Operating cost impacts are expected to be around $27,000 per year starting in FY27. Closer analysis will be determined at the completion of the construction phase.

USEFUL LIFE: 50 Years

Project	**Permanente Creek, San Francisco Bay to Foothill Expressway**
Program	Flood Protection – Lower Peninsula Watershed
Project No.	10244001s
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



McKelvey Ball Park upon completion in February 2020

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along 10.6 miles of Permanente Creek, from San Francisco Bay to Foothill Expressway, Hale Creek from Foothill Expressway to its confluence with Permanente Creek, and the diversion structure between Permanente and Stevens Creeks, to accomplish the following objectives:

- Provide flood protection to 1,664 parcels, including Middlefield Road and Central Expressway.
- Reduce erosion and sedimentation, reduce maintenance costs, and improve safety and stability of the failing channel on Permanente Creek from the San Francisco Bay to Foothill Expressway.
- Provide environmental restoration and enhancement benefits, where opportunities exist.
- Provide recreation enhancements, where opportunities exist.
- Provide natural flood protection by taking a multiple-objective approach.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW). For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION

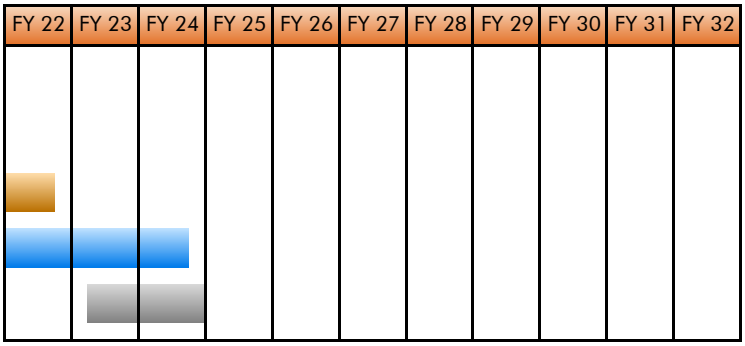


SCHEDULE & STATUS

July 2001 to June 2024

Construction includes multiple contract phases and three years of plant establishment monitoring.

Phase	Cost
Plan	10,051
Permits	3,932
Design	18,055
Construct	80,859
Closeout	187
	113,084



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund	17,363	450	337	0	0	0	0	0	18,150
with inflation	17,363	450	337	0	0	0	0	0	18,150
26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund	93,593	441	460	440	0	0	0	0	94,934
with inflation	93,593	441	460	480	0	0	0	0	94,974
TOTAL	110,956	891	797	440	0	0	0	0	113,084
with inflation	110,956	891	797	480	0	0	0	0	113,124

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund	17,363	450	0	337	0	0	0	0	0	18,150
26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund	94,918	0	885	0	56	0	0	0	0	94,974
TOTAL	**112,281**	**450**	**885**	**337**	**56**	**0**	**0**	**0**	**0**	**113,124**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	18,150
SCVWD Clean, Safe Creeks and Natural Flood	93,951
City of Mountain View	1,023
Total	**113,124**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $360,000 per year, beginning in FY21. Increases in operations and maintenance costs include sediment removal at three flood detention sites, and bypass channel inlet and outlet operations and maintenance.

USEFUL LIFE: 30+ Years

Project	**San Francisquito Creek, San Francisco Bay through Searsville Dam (E5)**
Program	Flood Protection – Lower Peninsula Watershed
Project No.	10284007s
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



Upstream face of Pope/Chaucer Street with water surface approximately two feet below the soffit

PROJECT DESCRIPTION

This project provides coordination and support to the San Francisquito Joint Powers Authority, in partnership with the U.S. Army Corps of Engineers, to complete planning and design documents for an approved project alternative on San Francisquito Creek, from San Francisco Bay through Searsville Dam. This project will accomplish the following objectives:

- Provide flood protection.
- Reduce bank erosion and sedimentation-related impacts along San Francisquito Creek.
- Avoid potential adverse impacts on fish and wildlife habitats.
- Minimize impacts to the creek's environmental resources and restore the riparian corridor where feasible.

The San Francisquito Flood Protection project will provide 100-year flood protection from San Francisco Bay to Highway 101 and replace two bridges between Highway 101 and Middlefield Road.

This project is accounted for in the following: (10284007 & 10284008 are Completed)

- 26284001 – SF Bay through Searsville Dam
- 26284002 – Construction - San Francisco Bay to Middlefield Road

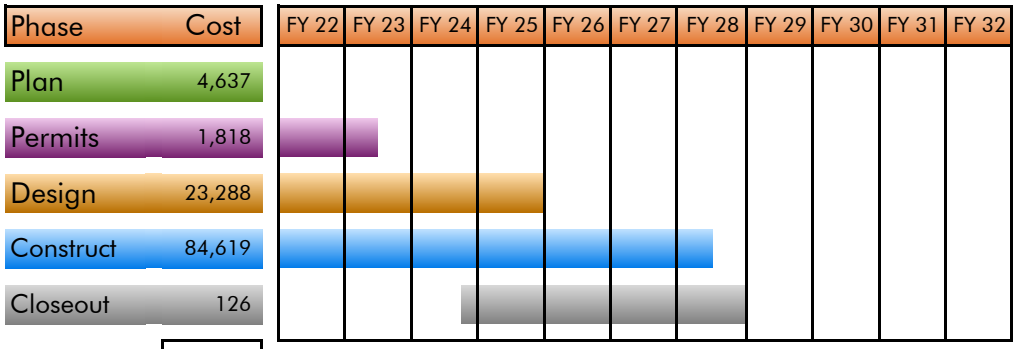
This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project E5. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION



SCHEDULE & STATUS

June 2003 to June 2028



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
10284007-San Francisquito Ck, Bay-Searsville Dam	4,064	0	0	0	0	0	0	0	4,064
with inflation	4,064	0	0	0	0	0	0	0	4,064
10284008-San Francisquito Ck, Early Implementation	1,614	0	0	0	0	0	0	0	1,614
with inflation	1,614	0	0	0	0	0	0	0	1,614
26284001-San Francisquito Ck, Bay-Searsville Dam	6,605	0	0	0	0	0	0	0	6,605
with inflation	6,605	0	0	0	0	0	0	0	6,605
26284002-San Francisquito Ck - Construction - SF Bay to Middlefield Rd.	49,027	1,390	5,490	32,619	15,277	325	325	93	104,546
with inflation	49,027	1,390	5,490	34,162	16,189	388	405	121	107,171
TOTAL	**61,310**	**1,390**	**5,490**	**32,619**	**15,277**	**325**	**325**	**93**	**116,829**
with inflation	**61,310**	**1,390**	**5,490**	**34,162**	**16,189**	**388**	**405**	**121**	**119,454**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
10284007-San Francisquito Ck, Bay-Searsville Dam	4,064	0	0	0	0	0	0	0	0	4,064
10284008-San Francisquito Ck, Early Implementation	1,614	0	0	0	0	0	0	0	0	1,614
26284001-San Francisquito Ck, Bay-Searsville Dam	6,682	0	77	0	0	0	0	0	0	6,682
26284002-San Francisquito Ck - Construction - SF Bay to Middlefield Rd.	50,662	12,821	13,066	0	26,586	16,189	388	405	121	107,171
TOTAL	**63,022**	**12,821**	**13,143**	**0**	**26,586**	**16,189**	**388**	**405**	**121**	**119,531**

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $77,000. Excess funding will be returned to reserves upon completion of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	5,678
SCVWD Safe, Clean Water and Natural Flood Protection Fund	75,840
JPA and Member Agencies (D/S Funding)	5,558
Unsecured Grants and Partnerships (U/S Funding)	23,514
Unsecured City of Palo Alto/Caltrans Grant (Newell Rd. Bridge)	8,941
Total	**119,531**
San Francisquito Joint Powers Authority	11,040
County of San Mateo - In-kind Services	1,500

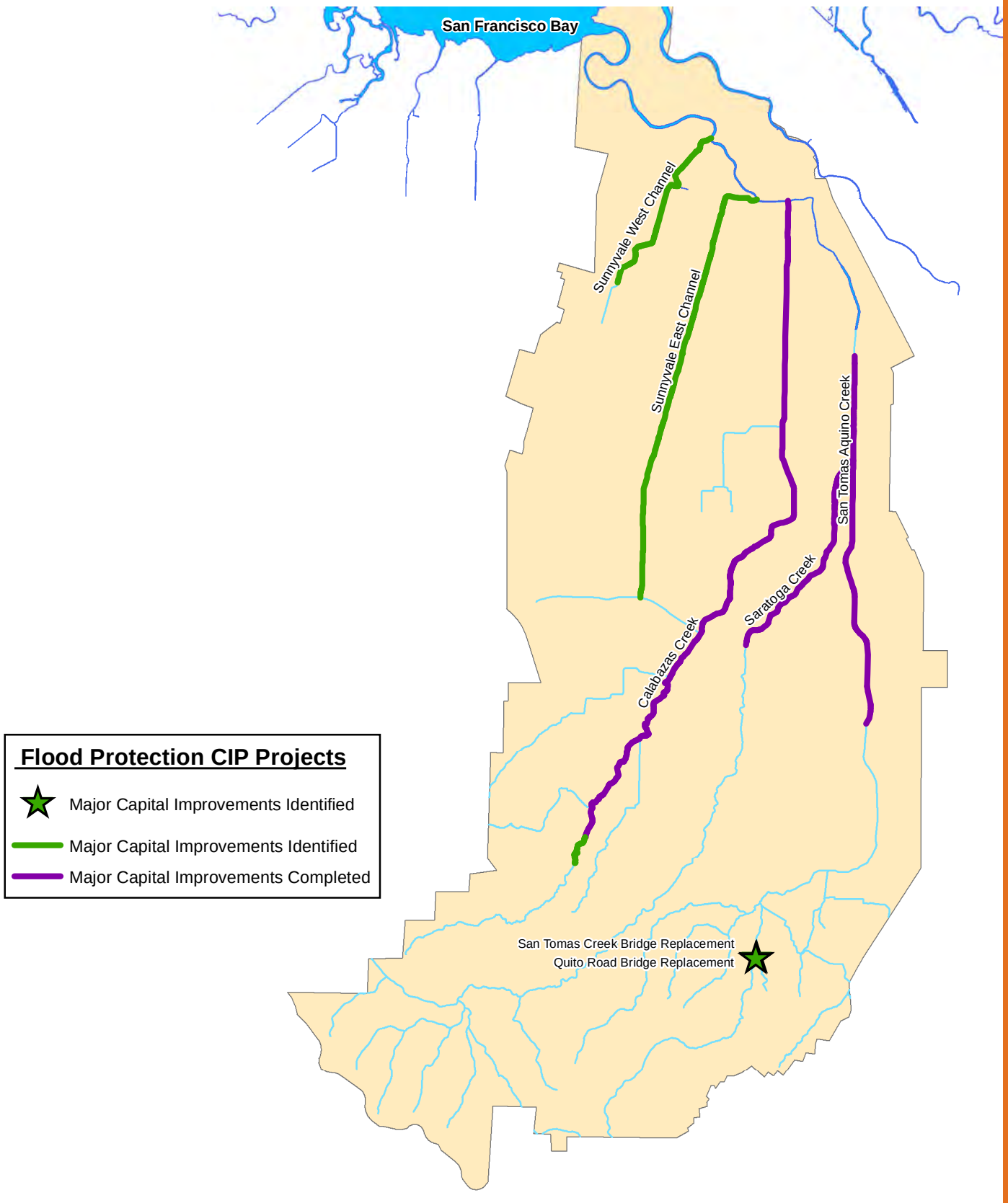
County and Corps participation are for Feasibility Study activities only. Additional funding will be negotiated during subsequent phases.

OPERATING COST IMPACTS

These projects will have an estimated annual operating cost impact of approximately $250,000 beginning in FY24.

USEFUL LIFE: 30+ Years

West Valley Watershed



Project	**Sunnyvale East and West Channels Flood Protection Project (E2)**
Program	Flood Protection – West Valley Watershed
Project No.	26074002
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



Sunnyvale West Channel looking south at Carl Road

PROJECT DESCRIPTION

In the early stages of the project design process, the Valley Water project team decided to join both improvement projects into a single flood protection project with a single Environmental Impact Report to reduce construction costs and minimize construction coordination issues between the two channels.

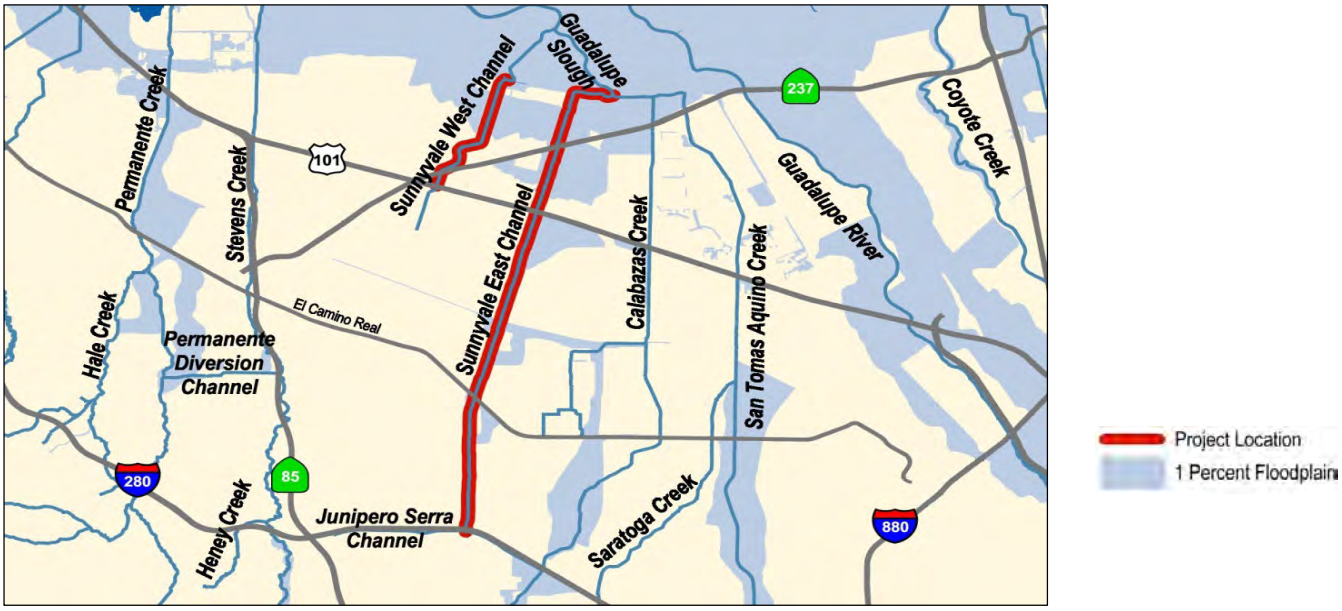
The West Channel extends approximately three miles and upgrades existing channel capacity to provide 1% (or 100-year) riverine flood protection for 47 acres of highly valuable industrial lands. The East Channel extends approximately 6.4 miles and upgrades existing channel capacity to provide 1% riverine flood protection for 1,618 parcels. Both projects decrease channel turbidity and sediment by repairing erosion sites, thereby improving water quality. The project will acomplish the following objectives:

- Provide 1% flood capacity for approximately 6.5 miles of channel along Sunnyvale East and approximately three miles of channel along Sunnyvale West within the City of Sunnyvale, protecting 1,618 properties (Sunnyvale East) and 47 acres (11 properties) of industrial land (Sunnyvale West).
- Improve channel water quality by providing erosion control measures to decrease sediment and turbidity.
- Identify opportunities to integrate recreation improvements with the City of Sunnyvale and others as appropriate.

The Sunnyvale East and Sunnyvale West Channels were originally identified as separate projects. In order to improve efficiency by combining efforts, the planning, design and construction phases for both projects will be performed as a single effort.

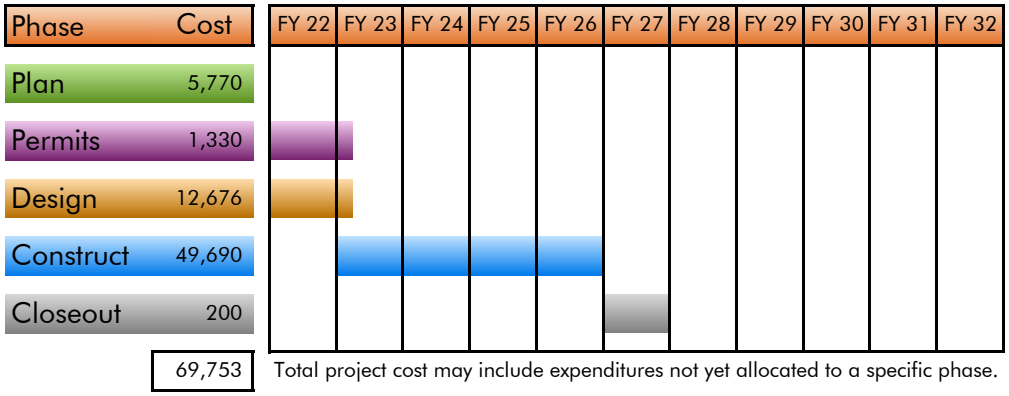
This project meets the commitments of the voter approved Safe, Clean Water Program (SCW) Project E2. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION



SCHEDULE & STATUS

March 2006 to June 2027



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
26074002-Sunnyvale East and West Channels Flood Protection Project (E2)	20,165	3,272	14,965	13,450	11,400	6,301	200	0	69,753
with inflation	20,165	3,272	14,965	13,583	11,598	6,551	249	0	70,383

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
26074002-Sunnyvale East and West Channels Flood Protection Project (E2)	37,471	0	14,034	931	13,583	11,598	6,551	249	0	70,383

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

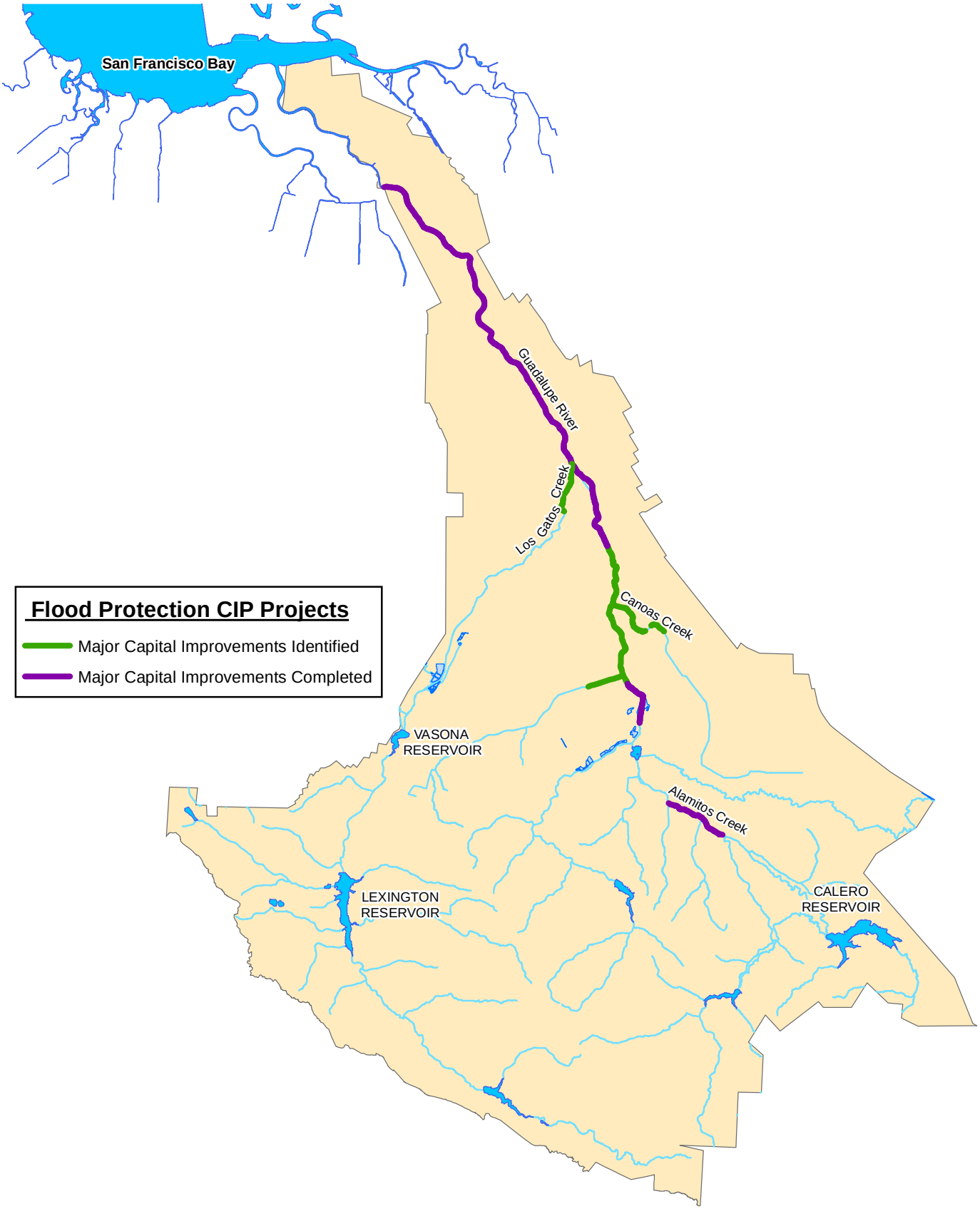
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	70,383
Other Funding Source	0
Total	**70,383**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $210,000 per year based on Operations & Maintenance forecasting, beginning in FY27. Increases in operations and maintenance costs include graffiti removal, vegetation management, rodent abatement, good neighbor maintenance, and encampment cleanup in areas where the City of Sunnyvale's joint use agreements are not applicable.

USEFUL LIFE: 30+ Years

Guadalupe Watershed



Project	**Guadalupe River Tasman Dr - I-880**
Program	Flood Protection - Guadalupe Watershed
Project No.	30154019
Contact	John Bourgeois jbourgeois@valleywater.org



East bank of the Guadalupe River, looking upstream toward Trimble Road

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along the Guadalupe River from Tasman Drive to Interstate 880 to restore the 100-year flood conveyance capacity. The project will accomplish the following objective:

- Restore designed level of service along a portion of the Guadalupe River to provide 1% flood protection.

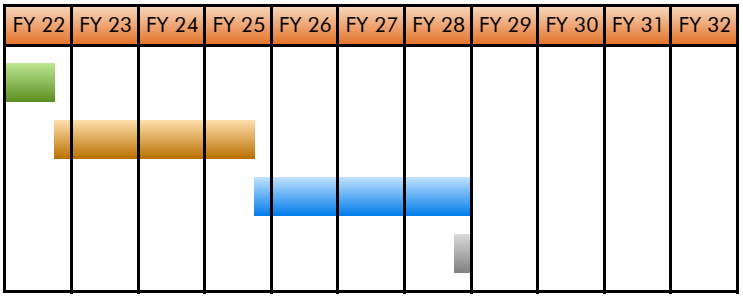
PROJECT LOCATION



SCHEDULE & STATUS

March 2019 to April 2028

Phase	Cost
Plan	2,750
Design	5,145
Construct	79,627
Closeout	50
	87,804



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
30154019-Guadalupe River Tasman Dr - I-880	2,476	1,506	1,568	1,500	1,077	27,111	26,283	26,283	87,804
with inflation	2,476	1,506	1,568	1,638	1,229	30,773	29,934	30,046	99,170

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
30154019-Guadalupe River Tasman Dr - I-880	2,918	2,695	1,631	0	1,575	1,229	30,773	29,934	30,046	99,170

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	99,170
Other Funding Sources	0
Total	**99,170**

OPERATING COST IMPACTS

Operating cost impacts will be determined during the design phase.

USEFUL LIFE: 30 Years

Project	**Guadalupe River–Upper, Interstate 280 to Blossom Hill Road (E8)**
Program	Flood Protection – Guadalupe Watershed
Project No.	26154001s
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



Flooding from Guadalupe River on Willow Street near the Southern Pacific Railroad Bridge

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (USACE) to plan, design, and construct improvements along approximately 6 miles of the Guadalupe River, from Interstate 280 to Blossom Hill Road, to accomplish the following objectives:

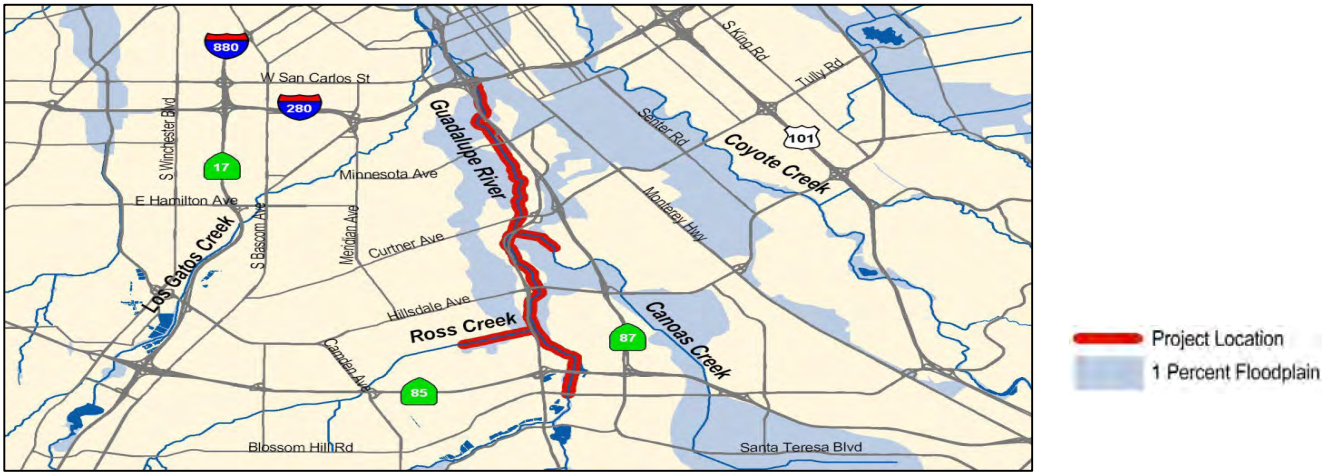
- Provide 1% flood protection to nearly 7,000 parcels along the Guadalupe River, from I-280 to Blossom Hill Road, including portions of Ross Creek and Canoas Creek.
- Provide long-term net gains of 15 acres in riparian forest acreage, quality, and continuity of wildlife habitat, and conditions favoring Chinook salmon and steelhead trout.
- Provide access to an additional 19 miles of suitable upstream spawning and rearing habitat, which would result in significant long-term beneficial impacts on fisheries resources.
- Coordinate with the City of San Jose and the community to establish a continuous maintenance road suitable for trail development between Interstate 280 and Los Alamitos Creek.
- Improve water quality by reducing bank erosion and sedimentation-related impacts along the river and tributaries.
- Address and resolve permit coordination activities and watershed integration issues through the Guadalupe Watershed Integration Working Group.

This project is accounted for in the following:

- 26154001 Fish Passage Modification (Completed)
- 26154002 I-280 to Southern Pacific Railroad Bridge (Reach 6) Flood Protection Project was completed in 2012.
- 26154003 Southern Pacific Railroad Bridge to Blossom Hill Road (Reaches 7-12) A General Re-Evaluation Report has been conducted with the USACE and it is expected to be completed by December, 2023.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project E8. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

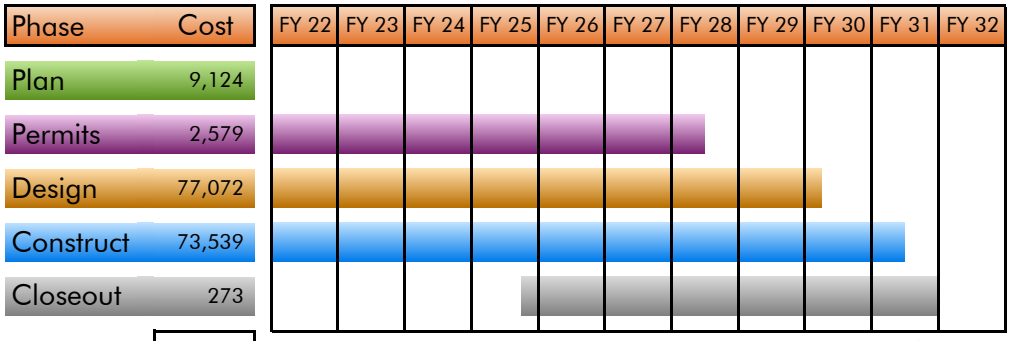
PROJECT LOCATION



SCHEDULE & STATUS

September 1985 to June 2031

Planning phase is complete. Design and construction of eight individual reaches are being done sequentially.



167,888

Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
26154001-Guadalupe Rv—Upr, Fish Passage Mods	2,651	0	0	0	0	0	0	0	2,651
with inflation	2,651	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6)	33,578	1,688	31	30	30	30	30	2,215	37,632
with inflation	33,578	1,688	31	33	34	36	37	2,863	38,300
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	68,377	888	888	300	100	8,725	22,940	17,500	119,718
with inflation	68,377	888	888	328	114	10,235	26,916	20,436	128,183
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	7,887
with inflation	7,887	0	0	0	0	0	0	0	7,887
TOTAL	**112,493**	**2,576**	**919**	**330**	**130**	**8,755**	**22,970**	**19,715**	**167,888**
with inflation	**112,493**	**2,576**	**919**	**360**	**148**	**10,271**	**26,953**	**23,299**	**177,020**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
26154001-Guadalupe Rv—Upr, Fish Passage Mods	2,651	0	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6)	34,704	563	1	30	33	34	36	37	2,863	38,300
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	89,399	0	20,134	0	0	0	0	18,347	20,436	128,183
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	0	7,887
TOTAL	**134,641**	**563**	**20,135**	**30**	**33**	**34**	**36**	**18,385**	**23,299**	**177,020**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

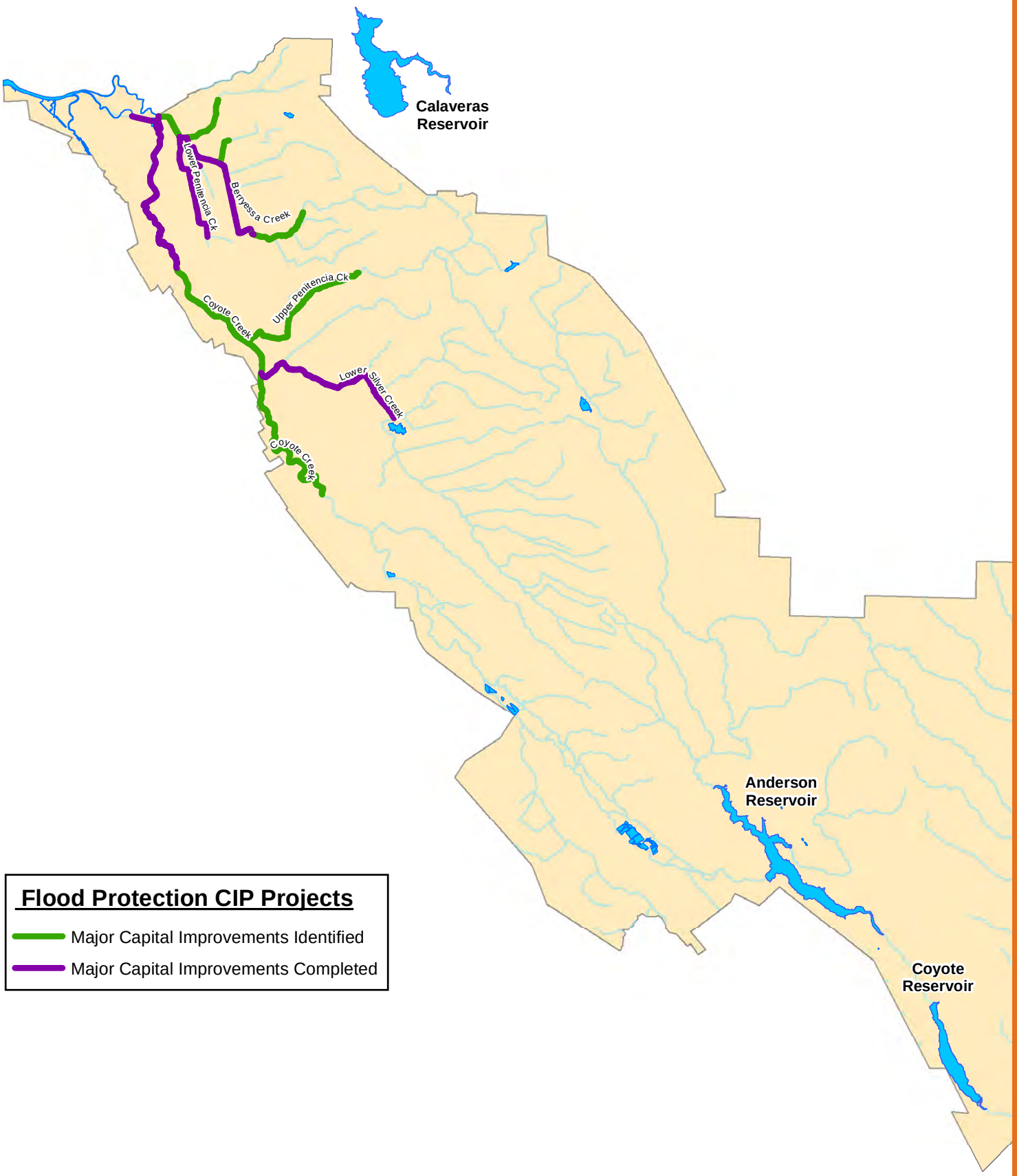
SCVWD Watershed Stream Stewardship Fund	12,000
SCVWD Safe, Clean Water and Natural Flood	131,565
State of California	28,864
City of San Jose	4,591
Total	**177,020**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $360,000 per year, beginning in FY21, for mitigation and monitoring labor and equipment, implementation of adaptive management measures, and operations and maintenance in accordance with the USACE Operations and Maintenance Manual.

USEFUL LIFE: 30+ Years

Coyote Watershed



Project	**Berryessa Creek, Calaveras Boulevard to Interstate 680**
Program	Flood Protection – Coyote Watershed
Project No.	26174041s
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



Berryessa Creek near flood stage at Piedmont Road in San Jose

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (USACE) to plan, design, and construct improvements along approximately two miles of Berryessa Creek, from Calaveras Boulevard to Interstate 680, to accomplish the following objectives:

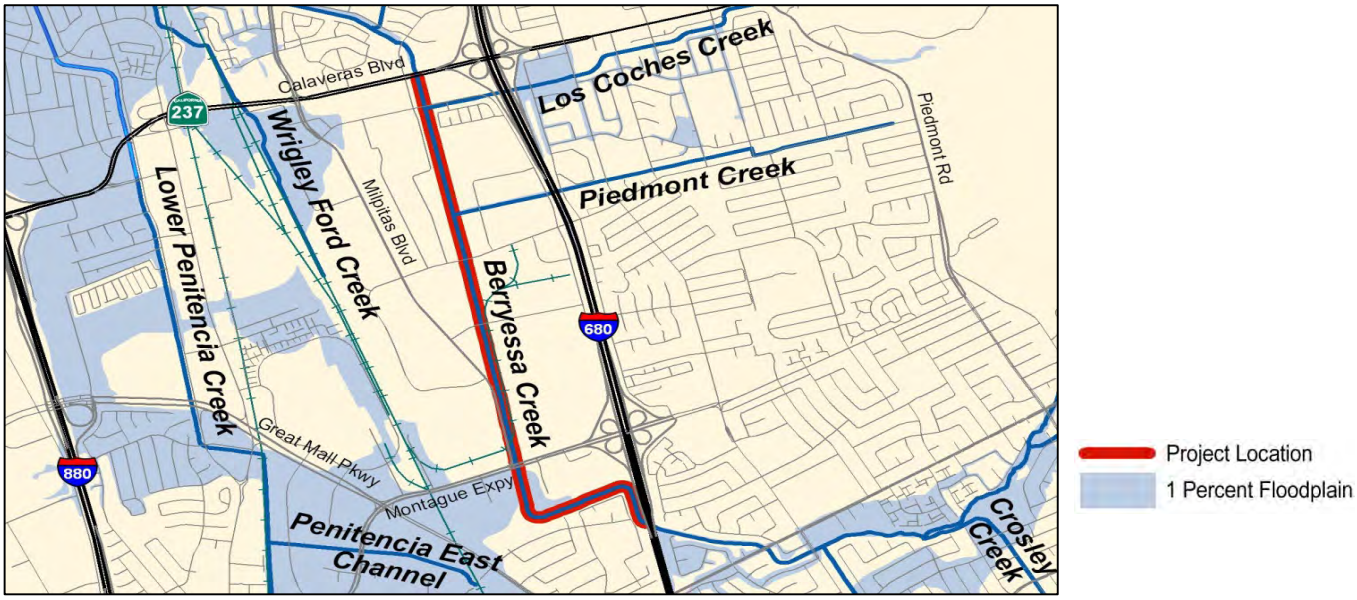
- Provide 1% flood protection to more than 1,100 homes, businesses, and public buildings.
- Reduce sedimentation and maintenance requirements.
- Mitigate for project impacts.
- Improve stream habitat values.
- Coordinate with the cities of San Jose and Milpitas, and the community to establish a continuous maintenance road suitable for trail development along the Berryessa Creek project.
- Obtain a Letter of Map Revision from the Federal Emergency Management Agency.
- Incorporate Valley Water's Clean, Safe Creeks and Natural Flood Protection Program Objectives.

This project is accounted for in the following:

- 26174041 – Coordination with USACE
- 26174042 – Reimbursable work – Lands, Easements, Rights of Way, Relocations and Disposal

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW). For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

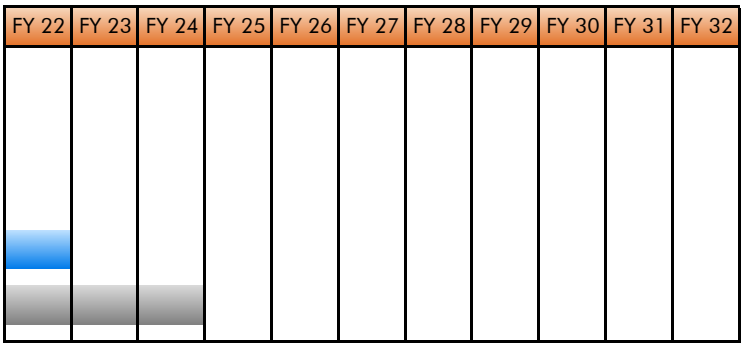
PROJECT LOCATION



SCHEDULE & STATUS

January 2000 to June 2024

Phase	Cost
Plan	8,323
Permits	1,831
Design	11,961
Construct	27,022
Closeout	253
	53,274



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
26174041-Berryessa Creek, USACE Coordination	23,393	531	398	11,286	0	0	0	0	35,608
with inflation	23,393	531	398	12,041	0	0	0	0	36,363
26174042-Berryessa Creek, LERRDs	17,666	0	0	0	0	0	0	0	17,666
with inflation	17,666	0	0	0	0	0	0	0	17,666
TOTAL	**41,059**	**531**	**398**	**11,286**	**0**	**0**	**0**	**0**	**53,274**
with inflation	**41,059**	**531**	**398**	**12,041**	**0**	**0**	**0**	**0**	**54,029**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
26174041-Berryessa Creek, USACE Coordination	35,594	0	11,670	0	769	0	0	0	0	36,363
26174042-Berryessa Creek, LERRDs	17,666	0	0	0	0	0	0	0	0	17,666
TOTAL	**53,260**	**0**	**11,670**	**0**	**769**	**0**	**0**	**0**	**0**	**54,029**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	18,429
State of California	25,600
Department of Water Resources (Prop 1E)	10,000
Total	**54,029**
USACE - In-kind Services	13,600

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $135,000 per year, beginning in FY20, to maintain approximately two miles of new levees and flood walls, and for activities such as vegetation control and graffiti removal.

USEFUL LIFE: 30+ Years

Project	**Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard**
Program	Flood Protection – Coyote Watershed
Project No.	40174004s
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



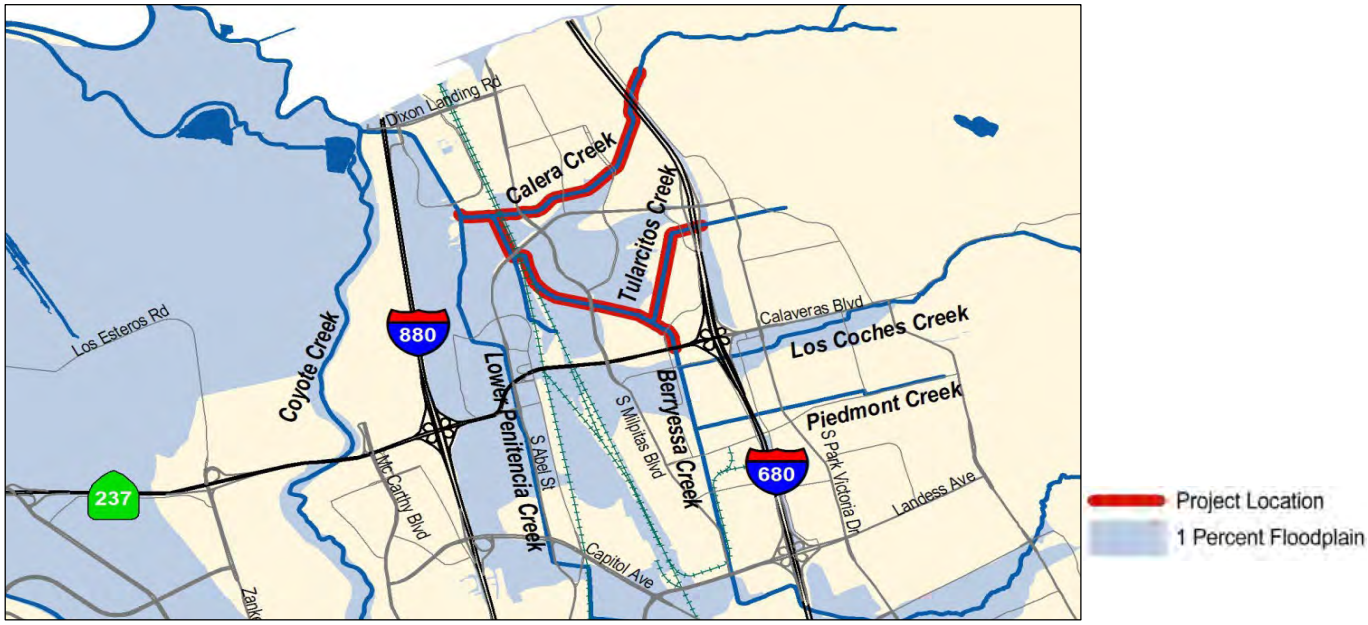
Berryessa Creek upstream of the confluence with Lower Penitencia Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately three miles of Berryessa Creek and its tributaries, from the confluence with Lower Penitencia Creek to Calaveras Boulevard (Phase 1 and 2) and both Calera and Tularcitos Creeks (Phase 3), to accomplish the following objectives:

- Provide 1% flood protection to 1,823 homes, businesses, and public buildings in the surrounding area.
- Improve the structural integrity of the levees.
- Improve maintenance access and safety for Valley Water staff.
- Identify opportunities to integrate recreation inputs consistent with the City of Milpitas' Trail Master Plan.
- Obtain a letter of map revision from the Federal Emergency Management Agency.

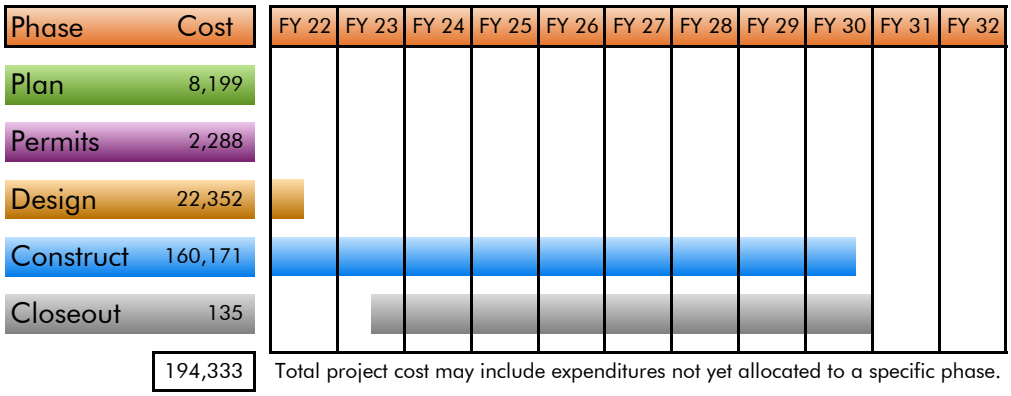
PROJECT LOCATION



SCHEDULE & STATUS

March 2001 to June 2030

Planning phase is complete. Construction includes three phases and three years of plant establishment monitoring.



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 1	46,825	105	110	0	0	0	0	0	47,040
with inflation	46,825	105	110	0	0	0	0	0	47,040
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 2	62,710	22,870	1,907	330	235	0	0	0	88,052
with inflation	62,710	22,870	1,907	360	268	0	0	0	88,115
40C40397-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 3	0	0	0	0	0	1,690	1,624	50,777	54,091
with inflation	0	0	0	0	0	2,015	2,024	61,330	65,369
26C40420-Phase 3 Planning/Design (only)	0	0	0	0	0	0	0	5,150	5,150
with inflation	0	0	0	0	0	0	0	8,906	8,906
TOTAL	**109,535**	**22,975**	**2,017**	**330**	**235**	**1,690**	**1,624**	**55,927**	**194,333**
with inflation	**109,535**	**22,975**	**2,017**	**360**	**268**	**2,015**	**2,024**	**70,236**	**209,431**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 1	50,191	0	3,261	0	0	0	0	0	0	50,191
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 2	72,791	12,789	0	1,907	360	268	0	0	0	88,115
40C40397-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 3	0	0	0	0	0	0	2,015	2,024	61,330	65,369
26C40420-Phase 3 Planning/Design (only)	0	0	0	0	0	0	0	0	8,906	8,906
TOTAL	**122,982**	**12,789**	**3,261**	**1,907**	**360**	**268**	**2,015**	**2,024**	**70,236**	**212,582**

Adjusted Budget includes adopted budget plus approved budget adjustments. Allocated funding exceeds planned expenditures by approximately $3,151,000. Excess funds will be returned to Fund Reserves at the close of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	200,118
Safe, Clean Water Fund Measure S	8,906
Department of Water Resources (Prop 1E)	12,464
Total	**212,582**

OPERATING COST IMPACTS

The operating cost impacts are anticipated to average approximately $218,000 annually starting in FY22.

USEFUL LIFE: 30+ Years

Project	**Coyote Creek, Montague Expressway to Tully Road (E1)**
Program	Flood Protection – Coyote Watershed
Project No.	26174043
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



February 2017 flood event, on Rock Springs Drive looking northeast towards Rocksprings Park

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately nine miles of Coyote Creek, from Montague Expressway to Tully Road, to accomplish the following objectives:

- To reduce the risk of flooding to homes, schools, businesses, and highways from approximately a 20 year flood event (February 2017 event), from Montague Expressway to Tully Road.
- Improve water quality, enhance stream habitat, and provide recreational opportunities.
- Incorporate aesthetic elements of the Coyote Creek park chain.
- Minimize long-term maintenance needs.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project E1. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

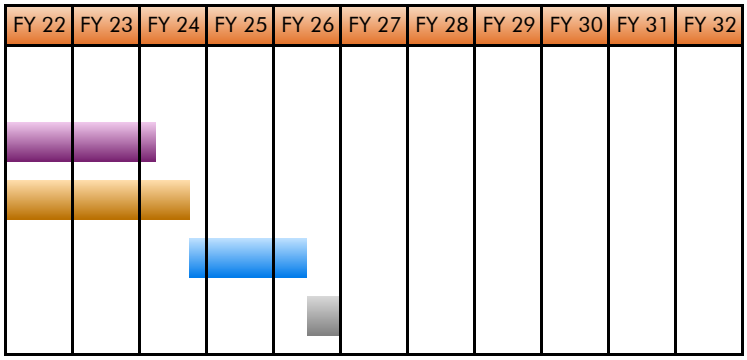
PROJECT LOCATION



SCHEDULE & STATUS

November 2017 to June 2026

Phase	Cost
Plan	9,926
Permits	1,590
Design	16,215
Construct	30,321
Closeout	106
	59,553



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
26174043-Coyote Creek, Montague Expressway to Tully Road (E1)	15,954	4,126	6,373	10,012	19,788	3,300	0	0	59,553
with inflation	15,954	4,126	6,373	10,790	21,805	3,781	0	0	62,830

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
26174043-Coyote Creek, Montague Expressway to Tully Road (E1)	17,235	2,845	0	6,373	10,790	21,805	3,781	0	0	62,830

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	62,830
Other Funding Sources	0
Total	**62,830**

OPERATING COST IMPACTS

Currently Valley Water has limited and sporadic property rights within the project limits along the creek, and ongoing maintenance costs are relatively small. Project implementation may include acquisition of continuous right of way for construction and future operations and maintenance. This project is expected to increase operating costs by approximately $1,000,000 per year starting in FY27.

USEFUL LIFE: 30+ Years

Project	**Cunningham Flood Detention Certification**
Program	Flood Protection – Coyote Watershed
Project No.	40264011
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



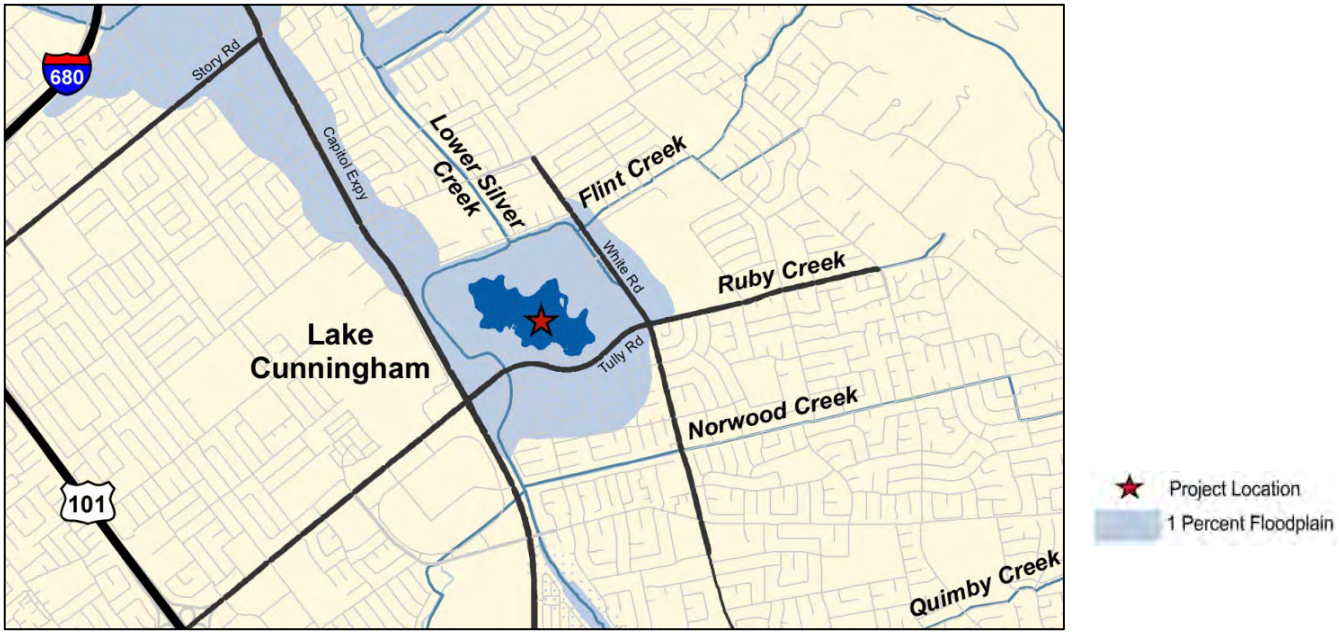
Flooding from Lower Silver Creek in February 1969 at the future site of Lake Cunningham Regional Park

PROJECT DESCRIPTION

This project plans, designs, and constructs final improvements at Lake Cunningham Regional Park (Park) to ensure the site operates as a flood detention facility in accordance with the 1978 agreement with the City of San José (City) and to ensure the Lower Silver Creek Project improvements downstream of Cunningham Avenue function as designed. This project will accomplish the following objectives:

- Validate that the flood detention facility can attenuate the volume of water associated with 2,249 cubic feet-per-second below the Park land elevation as stipulated in the 1978 Joint Use Agreement between the City and Valley
- Obtain Federal Emergency Management Agency certification of the flood detention facility and Lower Silver Creek improvements north of the Park to revise the applicable flood insurance rate maps in the Lower Silver Creek 1% floodplain near the north of the Park.
- Update the 1978 Joint Use Agreement between the City and Valley Water to meet the flood detention facility's validated condition.

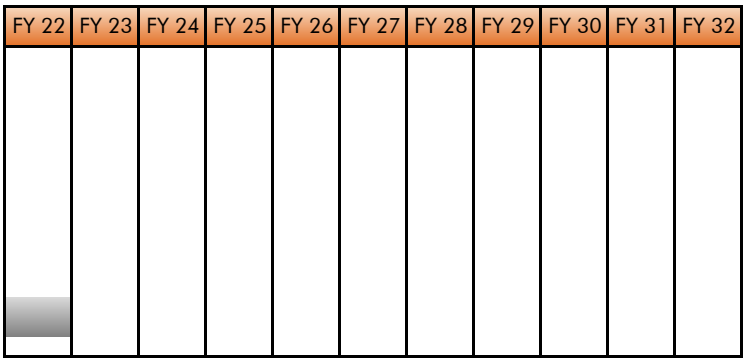
PROJECT LOCATION



SCHEDULE & STATUS

August 1999 to June 2022

Phase	Cost
Plan	2,322
Permits	369
Design	2,291
Construct	6,731
Closeout	-
	11,840



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
40264011-Cunningham Flood Detention Certification	11,807	33	0	0	0	0	0	0	11,840
with inflation	11,807	33	0	0	0	0	0	0	11,840

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
40264011-Cunningham Flood Detention Certification	11,810	30	0	0	0	0	0	0	0	11,840

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	8,122
California Department of Water Resources	1,000
Natural Resource Conservation Service	2,718
Total	**11,840**

OPERATING COST IMPACTS

The project is within Valley Water jurisdiction and it is designed to minimize maintenance activities such as sediment removal. Operating costs are expected to be approximately $60,000 per year starting in FY20.

USEFUL LIFE: 30+ Years

Project	**Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks**
Program	Flood Protection – Coyote Watershed
Project No.	40334005
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



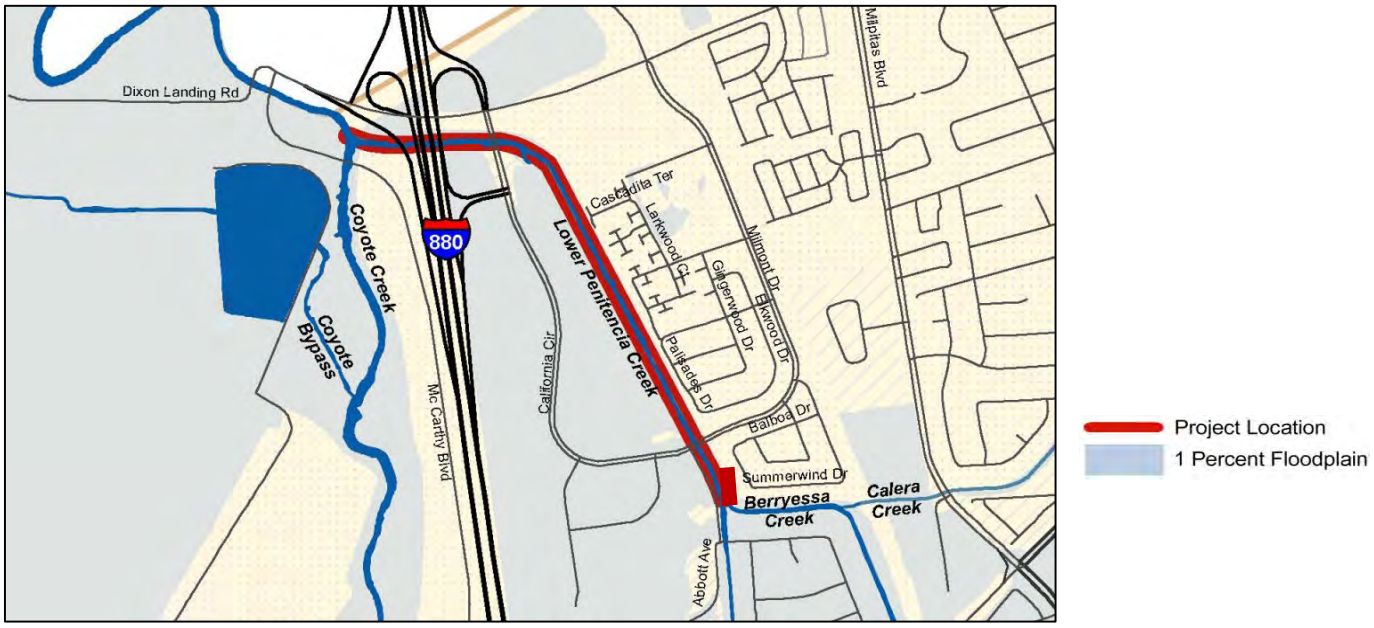
Lower Penitencia Creek, looking downstream from Milmont Drive

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately one mile of Lower Penitencia Creek from the downstream confluence with Coyote Creek to the downstream face of San Andreas Drive, to accomplish the following objectives:

- Convey the Lower Berryessa Creek 1% design flow.
- Meet required water surface elevations at Coyote Creek and Berryessa Creek confluences.
- Minimize the need for seasonal removal of sediment and non-woody vegetation.
- Maintain existing Federal Emergency Management Agency (FEMA) accreditation along the east levee located between California Circle and Berryessa Creek.
- Enable FEMA certification of the improvements.

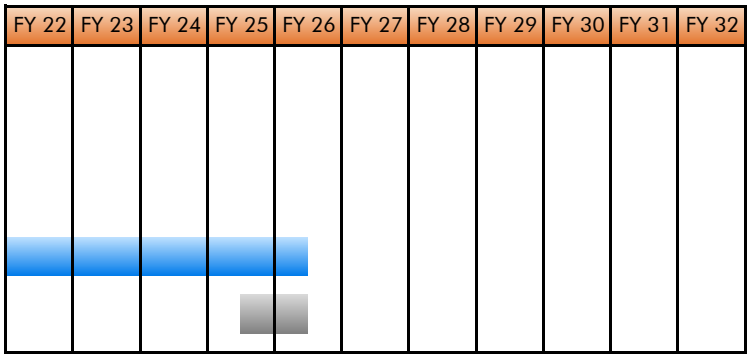
PROJECT LOCATION



SCHEDULE & STATUS

October 2010 to December 2025

Phase	Cost
Plan	3,574
Permits	959
Design	6,087
Construct	17,880
Closeout	20
	35,093



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
40334005-Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks	17,233	9,471	8,164	75	75	75	0	0	35,093
with inflation	17,233	9,471	8,164	82	86	89	0	0	35,125

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
40334005-Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks	19,032	7,686	14	8,150	82	86	89	0	0	35,125

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	30,125
Department of Water Resources (Prop 1E)	5,000
Total	**35,125**

OPERATING COST IMPACTS

This project is expected to have an operating cost of approximately $215,000 per year, beginning in FY26.

USEFUL LIFE: 50 Years

Project	**Lower Silver Creek, I-680 to Cunningham Avenue (Reaches 4-6)**
Program	Flood Protection – Coyote Watershed
Project No.	40264008s
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



Lower Silver Creek looking upstream from Capital Expressway

PROJECT DESCRIPTION

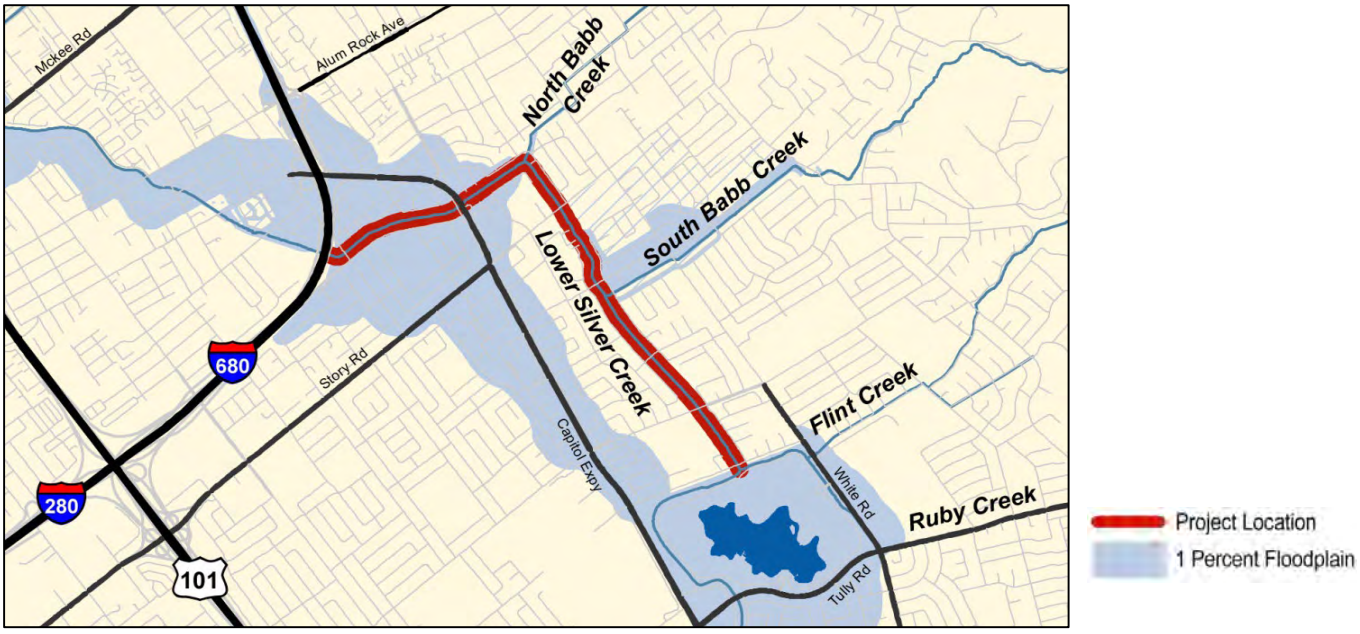
This project is part of a flood control project that partners with the Natural Resource Conservation Service to plan, design and construct improvements along approximately 2.3 miles of Lower Silver Creek, from Interstate 680 to Lake Cunningham. This project includes elements that are eligible for reimbursement from the state and federal governments to accomplish the following objectives:

- Increase flood protection to 3,800 parcels in the surrounding area.
- Allow for on-site mitigation of project impacts, and in some cases enhancement of existing habitat values by increased wetlands and riparian habitat.
- Improve vehicle and pedestrian bridges crossing Lower Silver Creek.
- Develop with the City of San José the footprint for a future trail project between Capitol Avenue-Frontage Road and Jackson Avenue that ensures pedestrians and bicyclists may travel beneath the Dobern Pedestrian Bridge.

This project is accounted for in the following:

- 40264007 Lower Silver Creek, I-680 to N. Babb Creek (Reach 4 Planning) - Completed
- 40264008 Lower Silver Creek, I-680 to Cunningham Rd. (Reaches 4-6)
- 40264012 Lower Silver Creek (Reaches 4-6) Reimbursable

PROJECT LOCATION

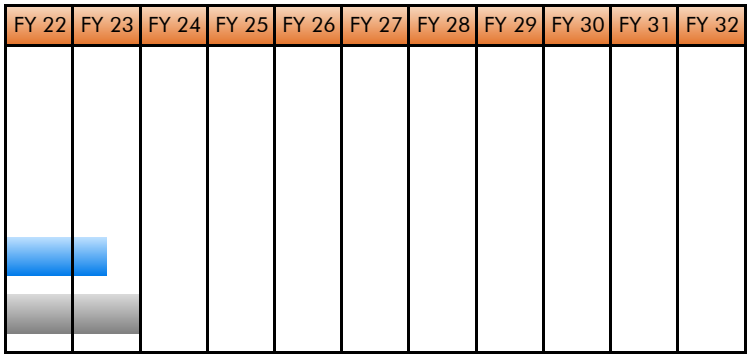


SCHEDULE & STATUS

August 2008 to June 2023

Planning and Design phases are complete

Phase	Cost
Plan	6,309
Permits	233
Design	10,924
Construct	79,895
Closeout	2,071
	101,550



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	2,371
with inflation	2,371	0	0	0	0	0	0	0	2,371
40264008-Lower Silver Ck, Nonreimbursable (R4-6)	95,127	2,072	52	0	0	0	0	0	97,251
with inflation	95,127	2,072	52	0	0	0	0	0	97,251
40264012-Lower Silver Creek, LERRDs (R4-6)	1,928	0	0	0	0	0	0	0	1,928
with inflation	1,928	0	0	0	0	0	0	0	1,928
TOTAL	99,426	2,072	52	0	0	0	0	0	101,550
with inflation	99,426	2,072	52	0	0	0	0	0	101,550

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	0	2,371
40264008-Lower Silver Ck, Nonreimbursable (R4-6)	97,173	26	0	52	0	0	0	0	0	97,251
40264012-Lower Silver Creek, LERRDs (R4-6)	1,928	0	0	0	0	0	0	0	0	1,928
TOTAL	101,472	26	0	52	0	0	0	0	0	101,550

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	48,495
State of California	8,379
Natural Resource Conservation Service - ARRA	20,676
California Department of Water Resources	24,000
Total	**101,550**

OPERATING COST IMPACTS

The operating cost impacts are estimated to be $230,000 per year beginning in FY20. Projected operating and maintenance costs include sediment removal, vegetation management, bank protection, graffiti removal, and encampment cleanup.

USEFUL LIFE: 50+ Years

Project	**Upper Penitencia Creek, Coyote Creek to Dorel Drive (E4)**
Program	Flood Protection – Coyote Watershed
Project No.	40324003s
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



Flooding at King Road on Upper Penitencia Creek

PROJECT DESCRIPTION

Initially, this project partnered with the U.S. Army Corps of Engineers (USACE) to plan, design, and construct improvements along approximately 4.2 miles of Upper Penitencia Creek, from the confluence with Coyote Creek to Dorel Drive, to accomplish the objectives listed below. In 2016, the USACE's decided that the multi-objective project which is appropriate for this creek could not be funded under the existing single-purpose authorization. The Project was not included in the USACE's 2017 workplan.

Objectives:

- Provide 1% flood protection to more than 8,000 parcels.
- Improve stream habitat values and fisheries potential.
- Reduce sedimentation and maintenance requirements.
- Identify opportunities to integrate recreation improvements consistent with the City of San Jose's Master Plans, the County's Penitencia Creek Master Plan, and Santa Clara Countywide Trails Master Plan.
- Incorporate Valley Water's Safe, Clean Water and Natural Flood Protection Program objectives.

This project is accounted for in the following:

- 40324003 Initial stages of Planning Phase through FY18
- 26324001 Safe, Clean Water Program

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project E4. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

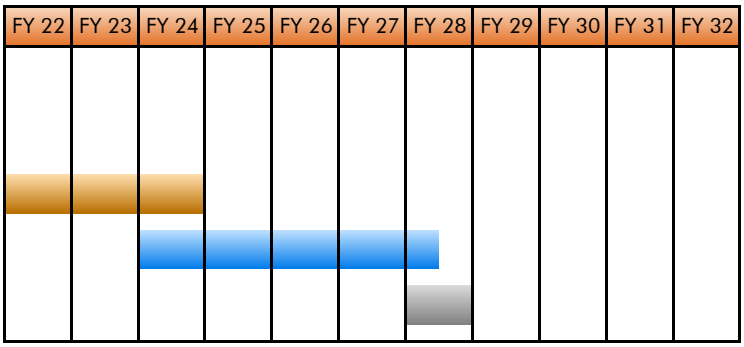
PROJECT LOCATION



SCHEDULE & STATUS

July 2000 to June 2028

Phase	Cost
Plan	8,049
Permits	619
Design	7,637
Construct	14,028
Closeout	154
	30,814



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, USACE	9,467	0	0	0	0	0	0	0	9,467
with inflation	9,467	0	0	0	0	0	0	0	9,467
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	2,309	0	0	0	0	0	0	0	2,309
with inflation	2,309	0	0	0	0	0	0	0	2,309
26324001-Upper Penitencia Ck, Coyote Ck to Dorel Dr	2,045	2,629	209	1,811	1,341	3,779	3,458	3,766	19,038
with inflation	2,045	2,629	209	1,978	1,530	4,322	3,963	4,371	21,047
TOTAL	**13,821**	**2,629**	**209**	**1,811**	**1,341**	**3,779**	**3,458**	**3,766**	**30,814**
with inflation	**13,821**	**2,629**	**209**	**1,978**	**1,530**	**4,322**	**3,963**	**4,371**	**32,823**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, USACE	9,467	0	0	0	0	0	0	0	0	9,467
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	2,309	0	0	0	0	0	0	0	0	2,309
26324001-Upper Penitencia Ck, Coyote Ck to Dorel Dr	8,617	2,636	6,579	0	0	0	1,460	3,963	4,371	21,047
TOTAL	**20,393**	**2,636**	**6,579**	**0**	**0**	**0**	**1,460**	**3,963**	**4,371**	**32,823**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	11,776
SCVWD Safe, Clean Water Fund	21,047
Total	**32,823**

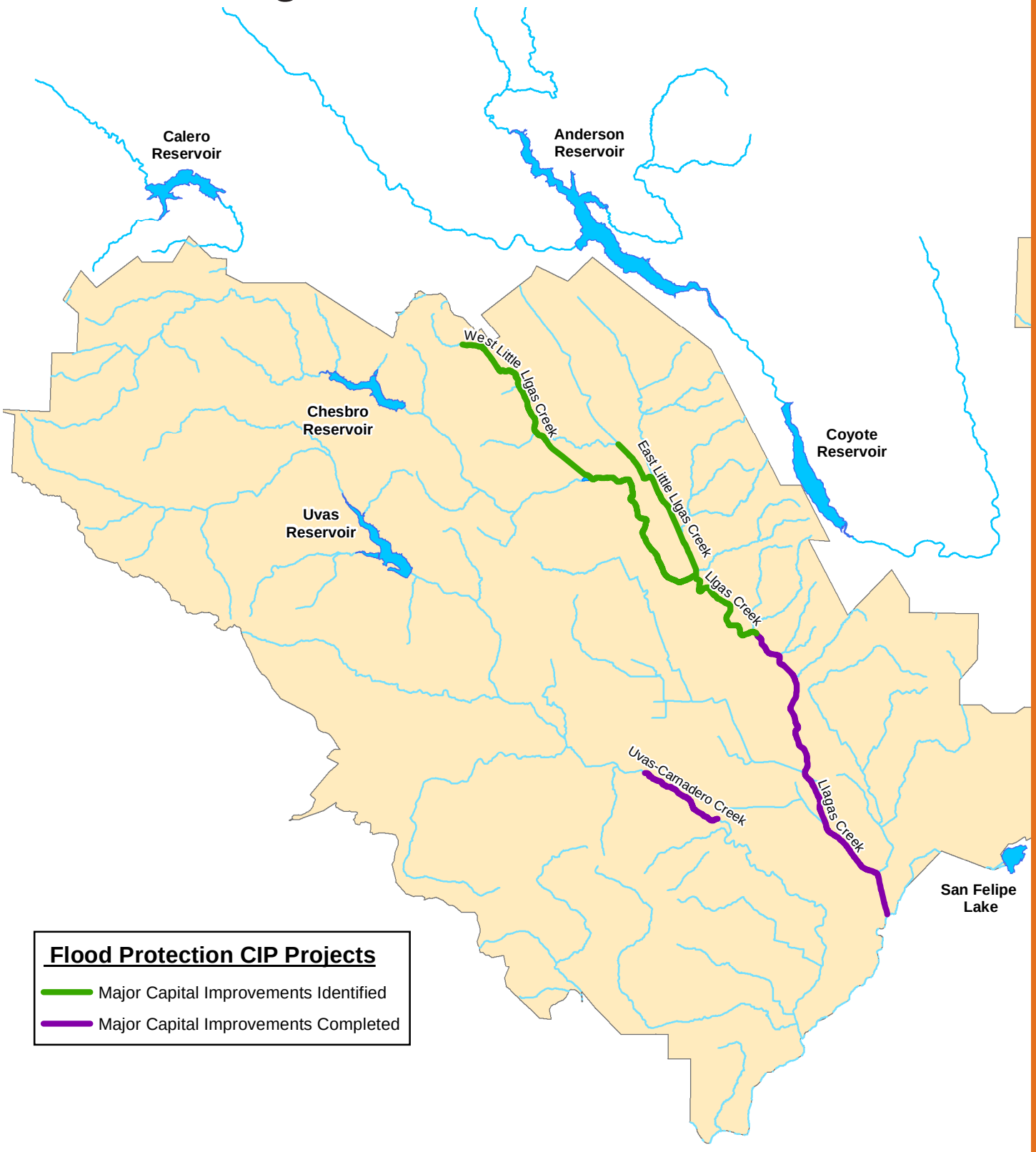
OPERATING COST IMPACTS

Operating costs are expected to average $790,000 per year beginning in FY28.

USEFUL LIFE:

Not Available

Uvas/Llagas Watersheds



Project	**Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River**
Program	Flood Protection – Uvas/Llagas Watershed
Project No.	50284010
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



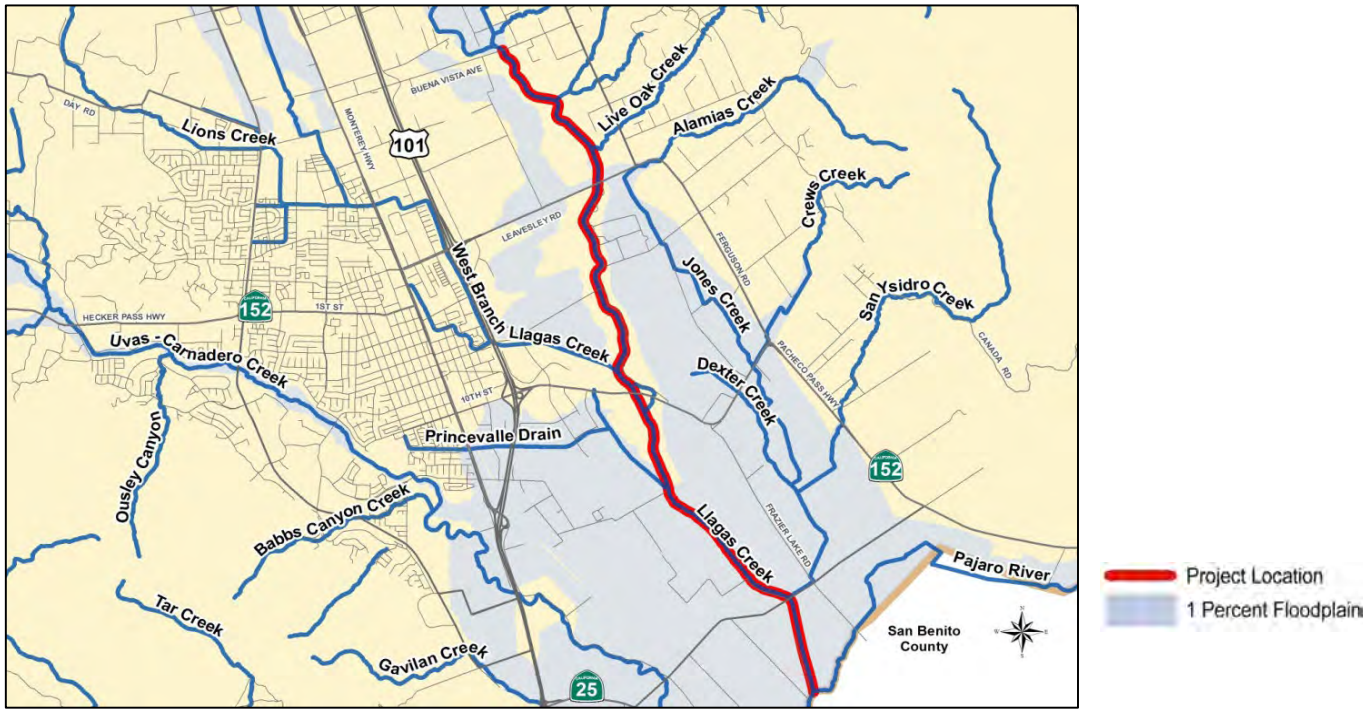
Lower Llagas Creek near Pajaro River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on 7.15 miles of Lower Llagas Creek, from Buena Vista Avenue to Pajaro River, to accomplish the following objectives:

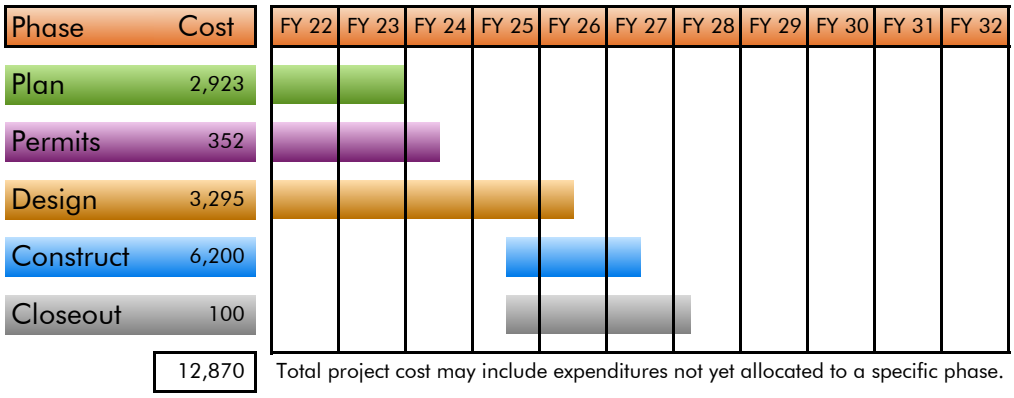
- Evaluate the current flood risk in the area surrounding the project versus the design level flood risk.
- Develop options to provide flood protection for Lower Llagas Creek Reaches 2 and 3 in accordance with Federal Emergency Management Agency criteria where applicable.
- Identify feasible opportunities for environmental restoration and corridor preservation.
- Coordinate planning, design, and construction efforts with the South County Regional Wastewater Authority.

PROJECT LOCATION



SCHEDULE & STATUS

September 2008 to July 2027



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River	3,323	991	1,306	950	3,000	3,000	300	0	12,870
with inflation	3,323	991	1,306	1,037	3,324	3,360	374	0	13,716

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River	6,947	0	2,633	0	0	3,035	3,360	374	0	13,716

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	12,596
State of California	1,120
Total	**13,716**

OPERATING COST IMPACTS

Operating cost impacts will be determined at the completion of the design phase.

USEFUL LIFE: 30+ Years

Project	**Llagas Creek–Upper, Buena Vista Avenue to Llagas Road (E6)**
Program	Flood Protection – Uvas/Llagas Watershed
Project No.	26174051s
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



Llagas Creek floods at Watsonville Road and the surrounding area

PROJECT DESCRIPTION

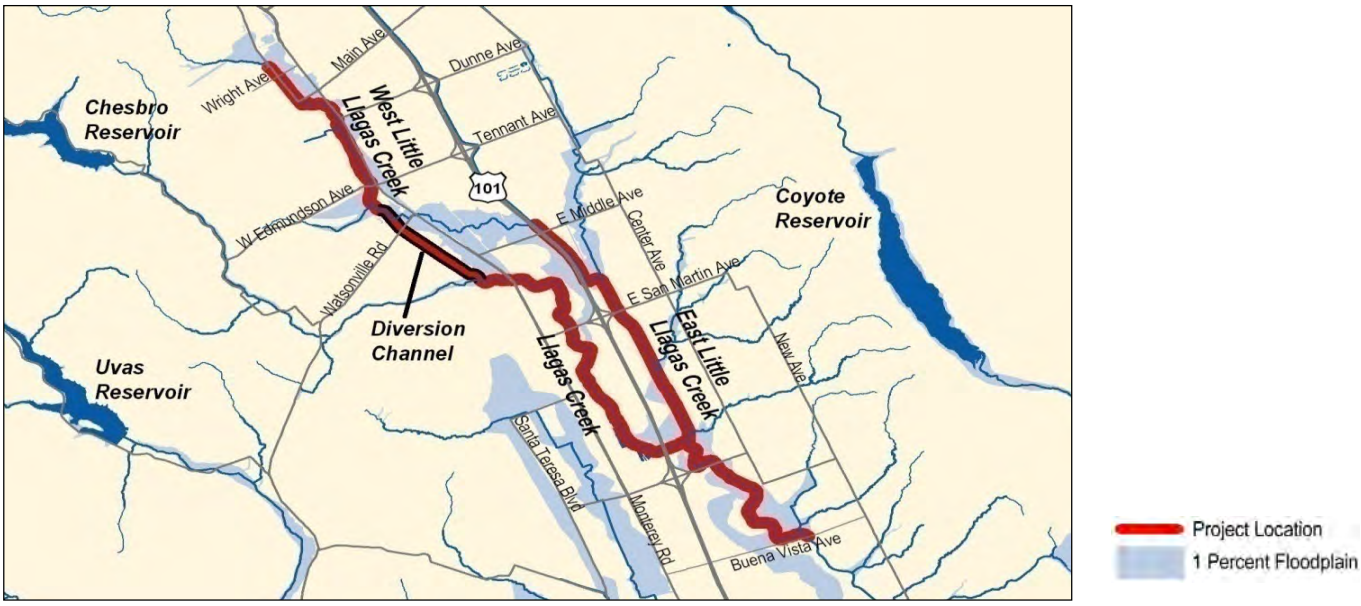
This project continues a Clean, Safe Creeks project in partnership with the U.S. Army Corps of Engineers (USACE) and the state to plan, design, and construct improvements along 13.9 miles of channel. The project extends from Buena Vista Avenue to Llagas Road, including West Little Llagas Creek in downtown Morgan Hill. The federally authorized preferred project protects the urban area of Morgan Hill from a 1% (or 100-year) flood, and reduces the frequency of flooding in surrounding areas. Construction includes channel modifications and replacement of road crossings. Valley Water continues to work with Congress to aggressively pursue federal funds to bring this project to full fruition. In 2012, project limits were extended 2,700 feet upstream to Llagas Road to address public concerns.

This project is accounted for in the following:

- 26174051 - Reaches 4-8 & 14 - Reimbursable - Lands, Easements, Rights of Way, Relocation, & Disposal
- 26174052 - Reaches 4-8 & 14 - Construction/Coordination with USACE
- 26174053 - Technical Studies (completed)
- 26174054 - Design
- 50C40335 - Construction, Reach 5, 6, & 7b

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project E6. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION

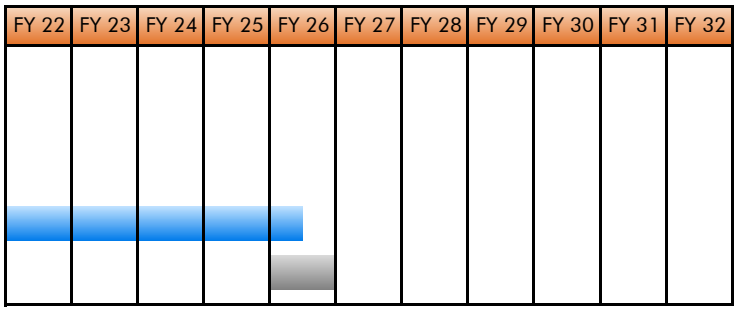


SCHEDULE & STATUS

July 2000 to June 2026

Project schedule may vary considerably and is dependent upon the USACE and Congress.

Phase	Cost
Plan	3,732
Permits	7,239
Design	70,619
Construct	230,271
Closeout	620
	329,698



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
26174051-Llagas Ck—Upper, LERRDs	45,006	3,022	21	20	20	0	0	0	48,089
with inflation	45,006	3,022	21	22	23	0	0	0	48,094
26174052-Llagas Ck—Upper, USACE Coordination	95,247	59,909	55,562	31,400	8,886	250	0	0	251,254
with inflation	95,247	59,909	55,562	32,621	9,255	298	0	0	252,893
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	1,446
with inflation	1,446	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	22,359	2,303	1,097	1,050	1,150	950	0	0	28,909
with inflation	22,359	2,303	1,097	1,147	1,312	1,133	0	0	29,351
50C40335-Llagas Ck—Upper, Construction Rch 5, 6, & 7b	23,690	0	0	0	0	0	0	0	23,690
with inflation	23,690	0	0	0	0	0	0	0	23,690
TOTAL	**187,748**	**65,234**	**56,680**	**32,470**	**10,056**	**1,200**	**0**	**0**	**329,698**
with inflation	**187,748**	**65,234**	**56,680**	**33,790**	**10,590**	**1,431**	**0**	**0**	**331,783**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
26174051-Llagas Ck—Upper, LERRDs	45,040	3,048	60	0	0	6	0	0	0	48,094
26174052-Llagas Ck—Upper, USACE Coordination	96,864	58,305	13	55,549	32,621	9,255	298	0	0	252,893
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	28,193	0	3,531	0	0	25	1,133	0	0	29,351
50C40335-Llagas Ck—Upper, Construction Rch 5, 6, & 7b	23,690	0	0	0	0	0	0	0	0	23,690
TOTAL	**195,233**	**61,353**	**3,604**	**55,549**	**32,621**	**9,285**	**1,431**	**0**	**0**	**331,783**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	17,900
SCVWD Safe, Clean Water Program Fund	170,099
SCVWD Watershed Stream Stewardship Fund	23,690
State of California	36,004
City of Morgan Hill	4,090
NRCS Grants (Unsecured)	80,000
Total	**331,783**
USACE - In-kind Services	65,000

OPERATING COST IMPACTS

Operation costs are currently anticipated to be approximately $1,500,000 per year, beginning in FY26.

USEFUL LIFE: 50+ Years

Multiple Watersheds

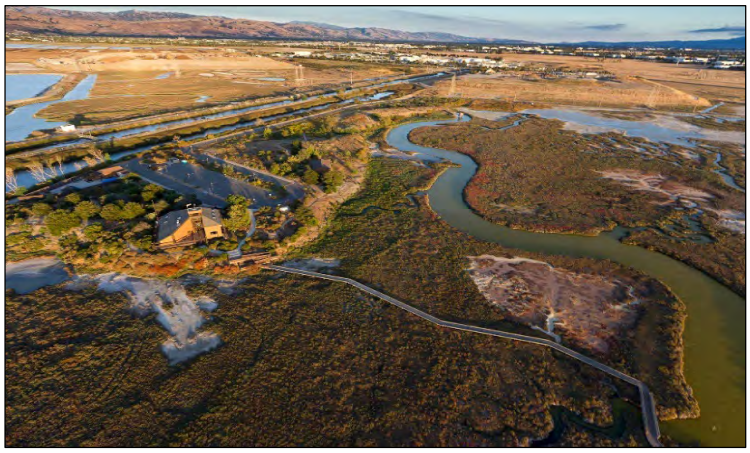


Flood Protection CIP Projects

Major Capital Improvements Identified

NOTE:
Location of Erosion Repair projects are not identified on this map.

Project	**San Francisco Bay Shoreline (E7)**
Program	Flood Protection – Multiple Watersheds
Project No.	00044026s
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



This project will restore tidal marshland in the San Francisco Bay. (Photo by Cris Benton)

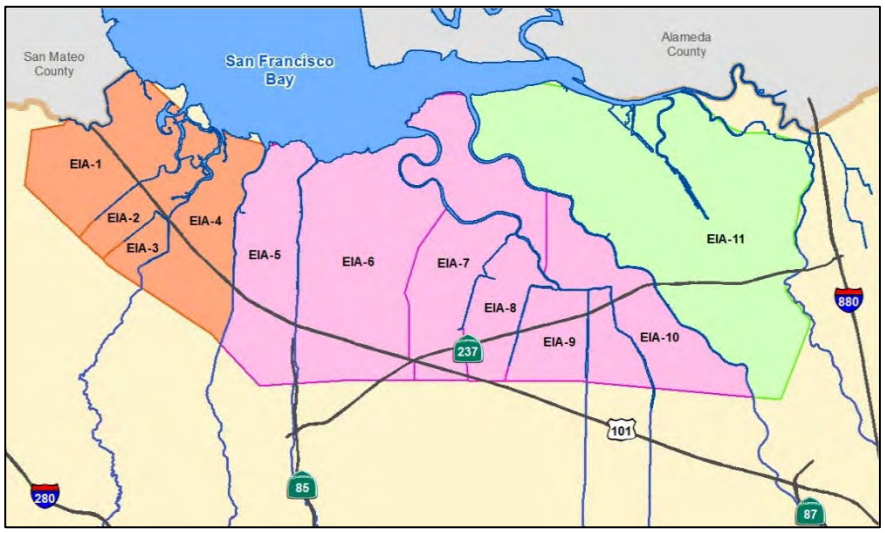
PROJECT DESCRIPTION

This project partners with the California Coastal Conservancy, U.S. Army Corps of Engineers (USACE) and key stakeholders to conduct an integrated, multi-objective project along the San Francisco Bay Shoreline. Project number 00044026 funded the USACE Feasibility Study effort for the North San José area, known as Economic Impact Area 11 (EIA 11) which was completed in FY17. This project number will continue to fund other Shoreline efforts outside of the Safe, Clean Water (SCW) project numbers. For EIA 11, the Shoreline Project received $177M under the USACE FY 2018 Disaster Supplemental Appropriations Bill. Valley Water's share of EIA 11 design and construction is $46.8M. Valley Water has been awarded a total of $61 million from a Measure AA grant to partially fund the design and construction of EIA 11. SCW funds will provide $15 million toward Valley Water's cost share of the design and partial construction efforts for EIA 11. SCW funds will provide $5 million toward Valley Water's cost share of the planning, design and construction phase efforts for project number 26444002 for of the Palo Alto-Mountain View area, known as EIA 1-4, along with the remaining EIAs and planning and design phases of project number 26444004 for the area from Mountain View-Sunnyvale-San José area, known as EIA 5-10. The Shoreline Project will accomplish the following objectives:

- Provide integrated fluvial and 1% coastal flood protection.
- Provide protection for future sea level rise.
- Restore and/or enhance tidal marsh and related habitats.
- Provide recreational and public access opportunities.
- Pursue continued federal funding.
- Obtain a letter of map revision from the Federal Emergency Management Agency at completion of the Construction
- Coordinate closely with the South Bay Salt Pond Restoration Project, local jurisdictions/cities, U.S. Fish and Wildlife Service, the community and key stakeholders.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project E7. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

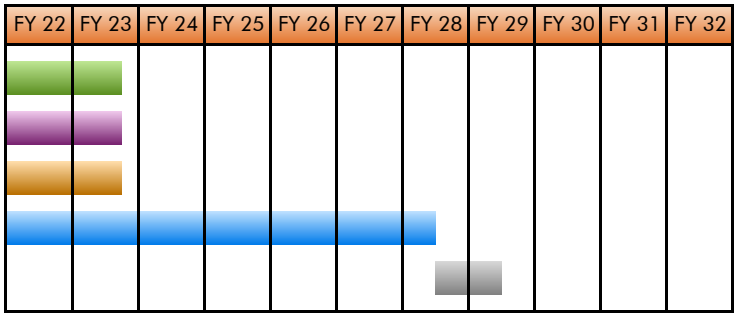
PROJECT LOCATION



SCHEDULE & STATUS

July 2005 to December 2028

Phase	Cost
Plan	22,909
Permits	1,152
Design	36,568
Construct	110,600
Closeout	200
	171,899



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
00044026-San Francisco Bay Shoreline	60,691	19,602	18,217	16,602	100	100	0	0	115,312
with inflation	60,691	19,602	18,217	17,739	114	119	0	0	116,483
62044042-Shoreline Early Implementation	359	0	0	0	0	0	0	0	359
with inflation	359	0	0	0	0	0	0	0	359
26444001-EIA 11 Design & Part Construction	17,516	0	0	0	0	0	0	0	17,516
with inflation	17,516	0	0	0	0	0	0	0	17,516
26444002 - EIAs 1-4	4,273	1,373	1,760	2,591	1,025	5,200	5,200	5,200	26,622
with inflation	4,273	1,373	1,760	2,829	1,170	6,201	6,480	6,772	30,858
26444004 - EIAs 5-10	0	1,045	1,045	1,000	3,000	3,000	3,000	0	12,090
with inflation	0	1,045	1,045	1,092	3,423	3,578	3,739	0	13,922
TOTAL	**82,839**	**22,020**	**21,022**	**20,193**	**4,125**	**8,300**	**8,200**	**5,200**	**171,899**
with inflation	**82,839**	**20,975**	**19,977**	**20,569**	**1,284**	**6,320**	**6,480**	**6,772**	**179,138**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
00044026-San Francisco Bay Shoreline	60,986	21,632	2,325	15,892	17,739	114	119	0	0	116,483
62044042-Shoreline Early Implementation	359	0	0	0	0	0	0	0	0	359
26444001-EIA 11 Design & Part Construction	17,516	0	0	0	0	0	0	0	0	17,516
26444002 - EIAs 1-4	4,287	1,359	0	1,760	2,829	1,170	6,201	6,480	6,772	30,858
26444004 - EIAs 5-10	0	1,045	0	1,045	1,092	3,423	3,578	3,739	0	13,922
TOTAL	**83,148**	**24,036**	**2,325**	**18,697**	**21,661**	**4,707**	**9,898**	**10,219**	**6,772**	**179,138**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	-390
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund (Environmental Enhancement Grant)	2,011
SCVWD Safe, Clean Water and Natural Flood Protection Fund	62,296
California Department of Water Resources	420
SFBRA Measure AA (Grant)	64,877
SFBRA Measure AA (Ballot Reimbursement)	831
State of California	49,093
Total	179,138
Federal Partners, South Bay Salt Ponds (SBSP)	48,470
State, SBSP	14,720
Foundations, Packard-Hewlett-Goldman-Moore, SBSP	17,060
Coastal Conservancy, Shoreline	2,010
Federal, USACE, Shoreline	8,990
Total Partnership Funding for In-kind Services	**91,250**

OPERATING COST IMPACTS

Operating costs will be determined upon completion of the construction phase.

USEFUL LIFE: 50+ Years

Project	**Watersheds Asset Rehabilitation Program**
Program	Flood Protection - Multiple Watersheds
Project No.	62084001
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



View of damage caused by burrowing animals along West Branch of Llagas Creek in the Uvas/Llagas Watershed

PROJECT DESCRIPTION

This project plans, designs, and constructs repairs to levee and stream bank sites that have erosion damage. Each site requires a different type of repair based on location, severity, and velocities in the creek. The objective of this project is to restore the stream bank or levee to a stable condition so as to reduce the risk of flooding and/or damage to adjacent properties and facilities. For facilities with animal conflict damage, the objective is to repair the damage caused by animals and where applicable, install deterrents for future animal activities. The repair work consists of, but is not limited to:

- Excavation and rebuilding of eroded soil material.
- Installation of rodent barriers such as mesh or fabric.
- Repairing the banks with methods commensurate with the extents of damage and environmental constraints.
- Geomorphic channel restoration with bed and bank repair.
- Outfall restoration and repair.
- Sediment removal and blockage repair.
- Fish ladder modifications and repairs.

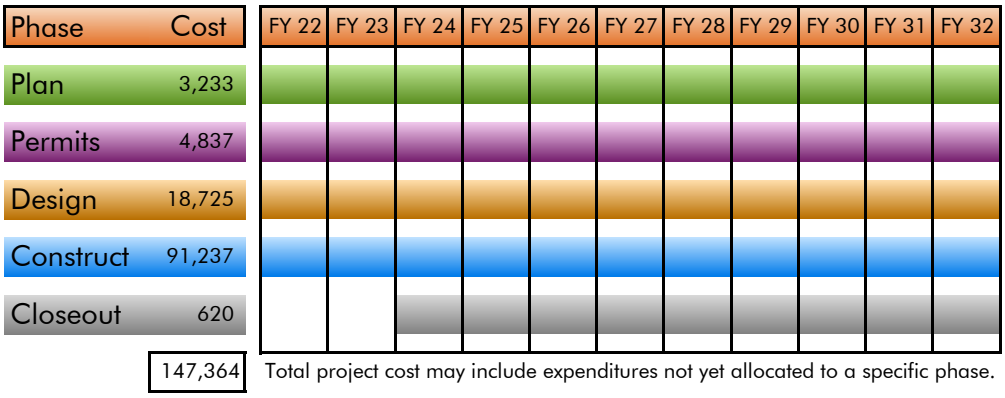
PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

Several small projects go through the design and construction phases each year under the Stream Maintenance Program 2 permit.



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
62084001-Watersheds Asset Rehabilitation Program	30,931	18,719	7,364	7,595	5,845	5,835	8,100	62,975	147,364
with inflation	30,931	18,719	7,364	8,138	6,487	6,697	9,602	86,074	174,012

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
62084001-Watersheds Asset Rehabilitation Program	39,362	10,911	623	6,741	8,138	6,487	6,697	9,602	86,074	174,012

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	174,012
City of Palo Alto (Matadero Creek)	227
Total	**174,012**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter existing facilities or modes of operation.

USEFUL LIFE:

Not Available

Water Resources Stewardship

Water Resources Stewardship Capital Improvements

WATER RESOURCES STEWARDSHIP OVERVIEW

Valley Water plans, designs and constructs various capital projects to meet the Board's Ends Policy E-4, "Water resources stewardship protects and enhances ecosystem health." These projects may fulfill environmental enhancement, mitigation, or stewardship goals and priorities.

Valley Water has placed an emphasis on stewardship since 1999, when Valley Water's Board of Directors adopted a mission and policies that added a focus on environmental stewardship. In 2001, the California legislature added environmental stewardship to Valley Water's purpose. Specifically, Valley Water's environmental stewardship activities focus on these three areas:

- Healthy creek and bay ecosystems
- Clean, safe water in creeks and the bay
- Improved quality of life through trails, open space and water resources management

Valley Water's stewardship work is extensive. Actions to protect the environment are woven into all we do. Some of Valley Water's stewardship accomplishments since 2000 are:

- Rehabilitated or restored 90 acres of riparian habitat and 500 acres of tidal wetland habitat
- Provided funding for 92 projects that resulted in 71 miles of public access
- Removed over 15,000 lbs of mercury from the creeks in 2017-2018
- Removed more than 20 fish passage impediments
- In conjunction with the Open Space Authority, acquired 1,300 acres of land for preservation of California Red Legged Frog and California Tiger Salamander habitat
- Completed a draft of existing conditions analysis of fish passage barriers

Environmental Enhancement & Stewardship Projects

The voters in Santa Clara County have supported Valley Water's environmental enhancement and stewardship efforts, including the creation or restoration of tidal or riparian habitat, by approving three special parcel taxes. In 2000, voters approved the Clean, Safe Creeks and Natural Flood Protection Plan (Clean, Safe Creeks). The Clean, Safe Creeks Plan was replaced by the Safe, Clean Water and Natural Flood Protection Program, which voters approved in 2012 (2012 Safe, Clean Water). In 2020, voters approved the renewal of the Safe, Clean Water Program, which replaced the 2012 Safe, Clean Water Program in entirety. Unlike the first two special parcel taxes, which were set to sunset in 15-years from the date of implementation, the renewed Safe, Clean Water Program will continue until repealed by voters or until the Board determines the funding is no longer needed.

The renewed Safe, Clean Water Program - Fund 26, along with the Watershed and Stream Stewardship (1% ad valorem property tax) - Fund 12 and the Water Utility Enterprise - Fund 61, are the primary funding sources for environmental enhancement and stewardship projects.

For environmental enhancement and stewardship projects under the renewed Safe, Clean Water Program that have not yet been fully defined, the CIP Planning Process will be conducted to allocate the Safe, Clean Water Program funding to the enhancement opportunities that meet Program key performance indicators (KPIs).

Environmental enhancement projects are constructed at the direction of the Board either to meet the Safe, Clean Water Program obligations or to meet other Board priorities.

Stewardship projects are implemented to promote water quality awareness; reduce pollutants in streams; support additional trails, parks and open space; support creek side recreation; and reduce greenhouse gases. Stewardship projects are implemented as required by

the Safe, Clean Water Program or at the discretion of the Board when reasonable and appropriate. These projects are often accomplished in partnership with or support of other agencies.

Major Capital Improvements Identified in the CIP

- Stevens Creek Fish Passage Enhancement
- Hale Creek Enhancement Pilot Study (D6.1)
- Almaden Lake Improvements (D4.1a)
- Watershed Habitat Enhancement Design & Construction
- Ogier Ponds Separation from Coyote Creek (D4.1b)
- Bolsa Road Fish Passage Improvement (D6.2)
- Calabazas/San Tomas Aquino Creek-Marsh Connection (formerly named Salt Ponds A5-11 Restoration)
- Safe, Clean Water Program Fish Passage Improvements (D4.3)

Feasibility Studies

In July 2016, the Board provided direction for increased visibility and accelerated delivery of environmental stewardship projects to meet Board priorities. Valley Water has dedicated additional full-time positions to complete the feasibility studies. These feasibility studies will determine the viability of projects that are of interest to the community.

Major Capital Improvements Identified in the CIP

- Watershed Habitat Enhancements

CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February.

The Board then authorizes release of the Draft CIP to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the Final CIP in May.

Projects under the Safe, Clean Water Program have funding allocations and if additional funds are required, the Board may direct that other available revenue be used to implement the proposed projects. Environmental enhancement and stewardship projects not included in the Safe, Clean Water Program are implemented at the discretion of the Board. The inclusion of these projects in the FY 2023-27 CIP has been approved by the Board.

Financial analysis of the following funding sources for Water Resources Stewardship capital improvements determined that the funding needs for approved projects can be met:

- Watershed and Stream Stewardship Fund
- Safe, Clean Water Fund
- Water Utility Enterprise Fund

It is understood that new capital projects have an impact on future operations and maintenance, and this is included in the financial analysis. Periodically throughout the project, projections of this impact are updated to reflect changes to the project elements.

Significant Project Updates from the Prior Year

• The Ogier Ponds Separation from Coyote Creek Project has increased in cost by $2.12 million as a result of the project schedule being extended by one year to account for additional design work. The Project is being considered as a conservation measure in the Anderson Dam Seismic Retrofit Project Environmental Impact Report (ADSRP EIR).

• The Salt Ponds A5-11 Restoration Project is an integrated project that will combine the Calabazas/San Tomas Creek Realignment Project with the South Bay Salt Pond Restoration Project planned tidal marsh restoration project elements. The total Project cost has increased by $4.88 million due to an increase in cost to the planning, environmental and design phases. Construction costs will be included in the project plan once a staff recommended alternative is presented to the Board at the end of the planning phase, expected in summer of 2024.

Water Resources Stewardship Capital Improvements

The following table is a project funding schedule for water resources stewardship capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2021-22.

Water Resources Stewardship Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
	ENVIRONMENTAL ENHANCEMENT & STEWARDSHIP										
	Lower Peninsula Watershed										
00294001s	Stevens Creek Fish Passage Enhancement	850	-	-	-	-	2,343	6,381	3,586	5,724	18,884
26164001	Hale Creek Enhancement Pilot Study (D6.1)	5,023	3,824	2,930	72	11	34	-	-	-	8,964
	Guadalupe Watershed										
26044001	Almaden Lake Improvements (D4.2)	7,417	9,531	-	20,855	19,092	742	30	31	33	57,731
	Coyote Watershed										
00C40400s	Watershed Habitat Enhancement Design & Construction	-	-	-	-	-	2,090	2,184	2,282	59,687	66,243
26044003	Ogier Ponds Separation from Coyote Creek (D4.1)	1,598	1,051	1,116	113	1,936	1,547	-	-	-	6,245
	Uvas/Llagas Watershed										
26044004	Bolsa Road Fish Passage Improvement (D6.2)	-	2,205	-	4,170	27	29	89	-	-	6,520
	Multiple Watersheds										
20444001s	Calabazas/San Tomas Aquino Creek-Marsh Connection	5,800	2,015	1	751	1,610	1,592	1,033	161	7	12,969
26044002	SCW Fish Passage Improvements (D4.3; Evelyn,Singleton)	5,328	980	176	16	-	-	-	-	-	6,324
26C40370	SCW Implementation: Fish Passage Improvements (D4)	-	-	-	-	-	2,127	1,184	1,000	2,502	6,813
	ENVIRONMENTAL FEASIBILITY STUDIES										
62044001	Watershed Habitat Enhancement Studies	4,099	-	363	-	-	-	-	-	-	4,099
	TOTAL	30,115	19,606	4,586	25,977	22,676	10,504	10,901	10,175	71,209	201,163

FY 2021-22 Funds to be reappropriated

The following table shows funding requirements from each funding source for enhancement capital improvements.

Water Resources Stewardship - Funding Sources ($K)

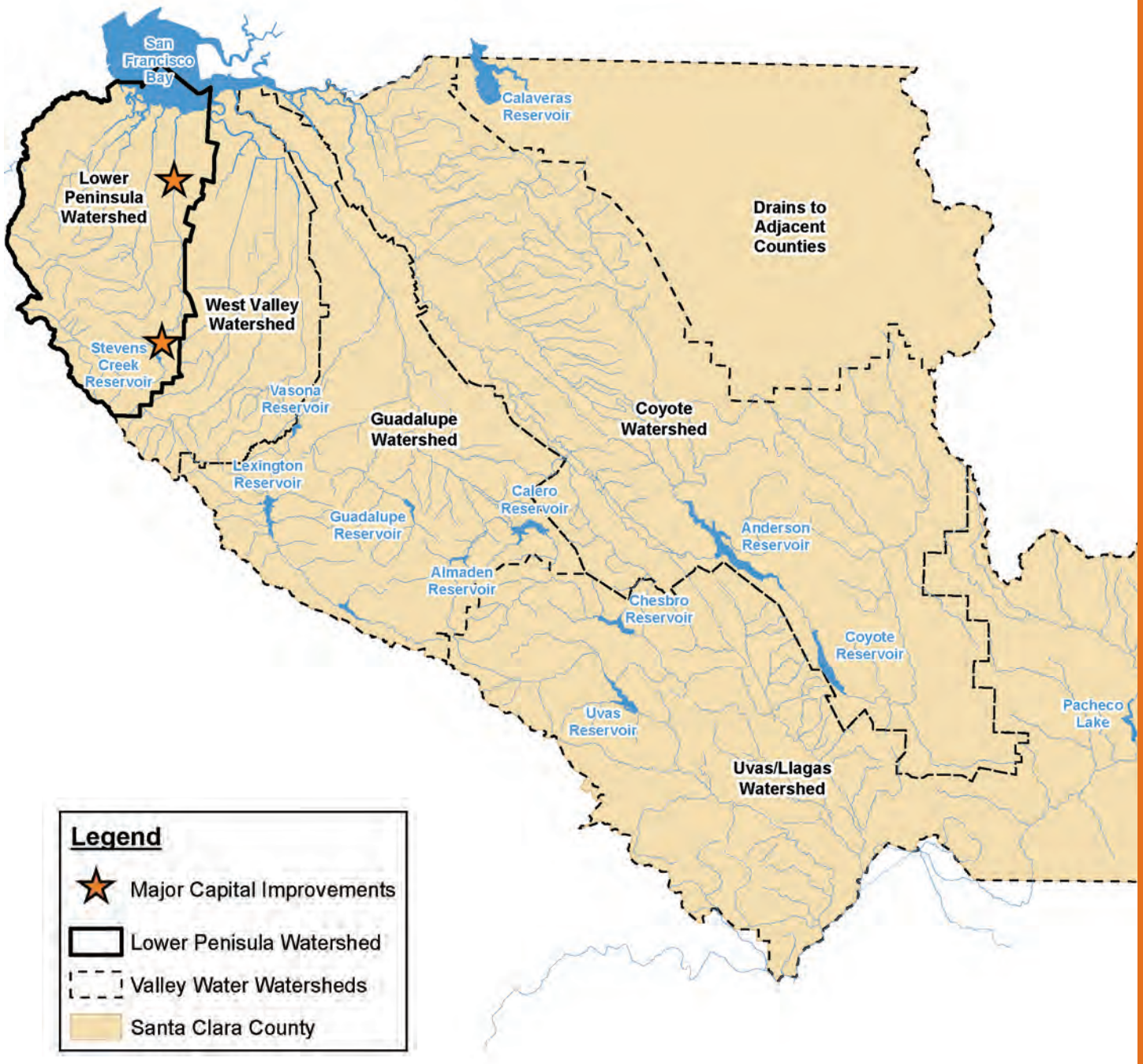
Fund Number	FUND NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
61	Water Utility Enterprise Fund	765	-	-	-	-	3,710	4,843	2,323	41,394	53,035
12	Watershed Stream Stewardship Fund	9,436	2,015	364	751	1,610	2,315	4,755	3,706	24,024	48,612
26	Safe, Clean Water and Natural Flood Protection Fund	19,914	17,591	4,222	25,226	21,066	4,479	1,303	4,146	5,791	99,516
	TOTAL	30,115	19,606	4,586	25,977	22,676	10,504	10,901	10,175	71,209	201,163

FY 2021-22 Funds to be reappropriated

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Environmental Enhancement & Stewardship

Lower Peninsula Watershed



Project	**Stevens Creek Fish Passage Enhancements**
Program	Water Resources Stewardship - Lower Peninsula Watershed
Project No.	00294001s
Contact	John Bourgeois jbourgeois@valleywater.org



Example of a fish ladder to be modified or reconstructed for improved fish passage

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Moffett Boulevard fish ladder to improve fish passage at Stevens Creek Dam to accomplish the following objectives:

- Restore and maintain a healthy steelhead trout population in the Stevens Creek watershed.
- Provide adequate passage for adult steelhead trout to reach suitable spawning and rearing habitat and for out-migration of juveniles.

This project is accounted for in the following:

- 00294001 Fish Passage Planning (Completed)
- 00C40145 Moffett Boulevard Fish Ladder
- 00C40198 Stevens Creek Dam Multi-port Outlet
- 62C40403 Stevens Creek Fish Barrier Removal Construction

PROJECT LOCATION



SCHEDULE & STATUS

July 2008 to June 2025

Planning phase is complete and project is currently on hold.

Refinement of phase schedule will be defined at the begining of the design phase.

Phase	Cost
Plan	824
Permits	105
Design	2,659
Construct	12,525
Closeout	82
	16,220

FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32

Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	850
with inflation	850	0	0	0	0	0	0	0	850
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	0	1,255	1,565	0	0	2,820
with inflation	0	0	0	0	1,432	1,770	0	0	3,202
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	0	323	1,045	37	0	1,404
with inflation	0	0	0	0	368	1,184	46	0	1,598
62C40403-Stevens Ck Fish Barrier Removal Construction	0	0	0	0	476	3,003	3,004	4,663	11,146
with inflation	0	0	0	0	543	3,427	3,540	5,725	13,235
TOTAL	**850**	**0**	**0**	**0**	**2,054**	**5,613**	**3,041**	**4,663**	**16,220**
with inflation	**850**	**0**	**0**	**0**	**2,343**	**6,381**	**3,586**	**5,725**	**18,886**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	0	850
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	0	0	1,432	1,770	0	0	3,202
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	0	0	368	1,184	46	0	1,598
62C40403-Stevens Ck Fish Barrier Removal Construction	0	0	0	0	0	543	3,427	3,540	5,725	13,235
TOTAL	**850**	**0**	**0**	**0**	**0**	**2,343**	**6,381**	**3,586**	**5,725**	**18,886**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund–10%	1,889
SCVWD Water Utility Enterprise Fund–90%	16,997
Total	**18,886**

OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

USEFUL LIFE: 50 Years

Project	**Hale Creek Enhancement Pilot Study (D6.1)**
Program	Water Resources Stewardship - Lower Peninsula Watershed
Project No.	26164001
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



Reach to be modified downstream of 7th Day Adventist foot bridge between Marilyn Drive and North Sunshine Drive

PROJECT DESCRIPTION

This pilot project plans, designs, and constructs improvements to an approximately 650-foot long reach in Hale Creek to accomplish the following objectives:

- Provide flood protection and enhance habitat.
- Restore stream recharge capability to a concrete-lined portion.
- Remove existing concrete channel and replace with a vegetated soft-bottom channel, to improve and restore the natural functions of the stream.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project D6.1. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

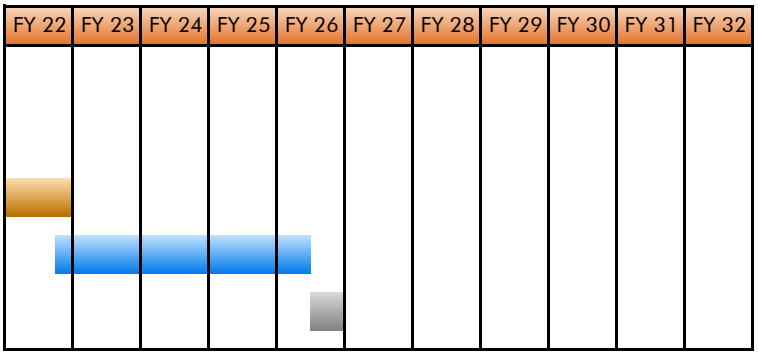
PROJECT LOCATION



SCHEDULE & STATUS

July 2014 to June 2026

Phase	Cost
Plan	39
Permits	182
Design	3,094
Construct	5,584
Closeout	50
	8,959



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
26164001-Hale Creek Enhancement Pilot Study (D6.1)	2,777	3,140	3,002	10	30	0	0	0	8,959
with inflation	2,777	3,140	3,002	11	34	0	0	0	8,964

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
26164001-Hale Creek Enhancement Pilot Study (D6.1)	5,023	3,824	2,930	72	11	34	0	0	0	8,964

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	8,964
Other Funding Sources	0
Total	**8,964**

OPERATING COST IMPACTS

Operating cost impacts will be determined at the completion of the construction phase.

USEFUL LIFE:

Not available

Environmental Enhancement & Stewardship

Guadalupe Watershed



Project	**Almaden Lake Improvements (D4.2)**
Program	Water Resources Stewardship – Guadalupe Watershed
Project No.	26044001
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



A southern view of Almaden Lake, through which Alamitos Creek flows

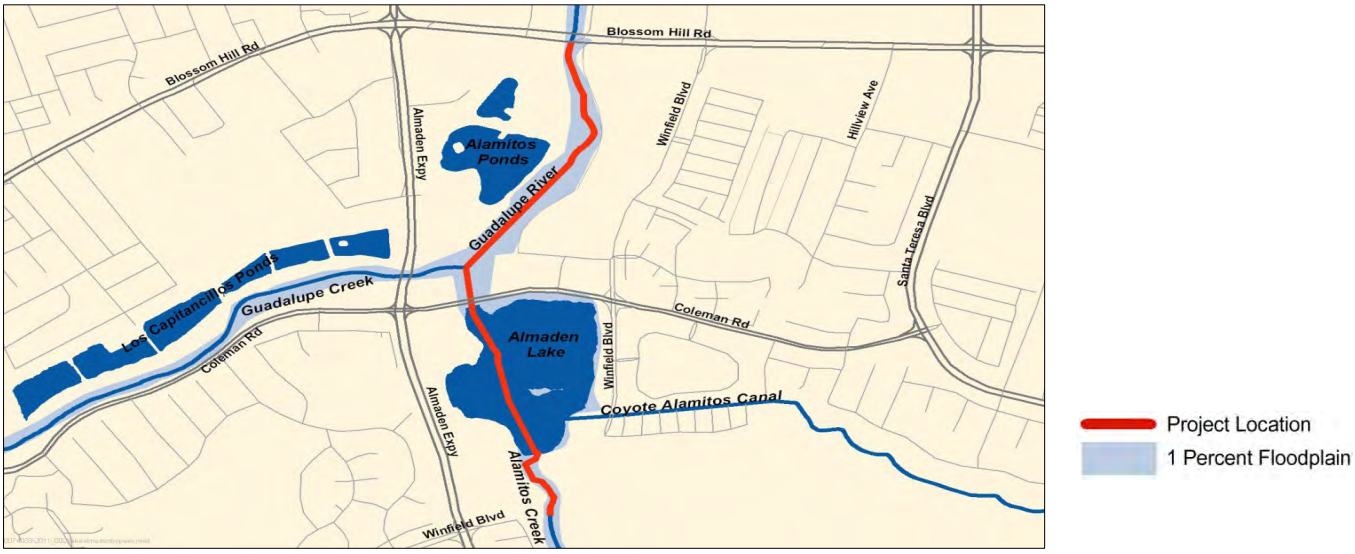
PROJECT DESCRIPTION

The project will separate Alamitos Creek from Almaden Lake and restore Alamitos Creek's stream function within the footprint of Almaden Lake. The goals are to improve water quality and physical habitat for steelhead and other anadromous fish by separating the creek from the lake while incorporating the principle of geomorphic design and to create a self-sustaining channel that requires little maintenance to keep it viable for fisheries and wildlife benefits. Benefits of this project will be the creation of channel complexity in the restored stream channel such as instream riffle-pool habitat, cover for rearing fish, gravel to support spawning and plantings that will provide numerous ancillary wildlife benefits; reduction of high water temperatures released from Almaden Lake into Alamitos Creek; and removal of entrainment, predatory and methylmercury impacts to anadromous fish from Almaden Lake. The objectives are as follows:

- Separate Alamitos Creek from Almaden Lake.
- Reduce thermal impediment to migration of anadromous fish.
- Remove entrainment and impacts from predatory species to anadromous fish.
- Reduce mercury concentration in target fish to meet applicable water quality objectives.
- Minimize impacts to recreational features.

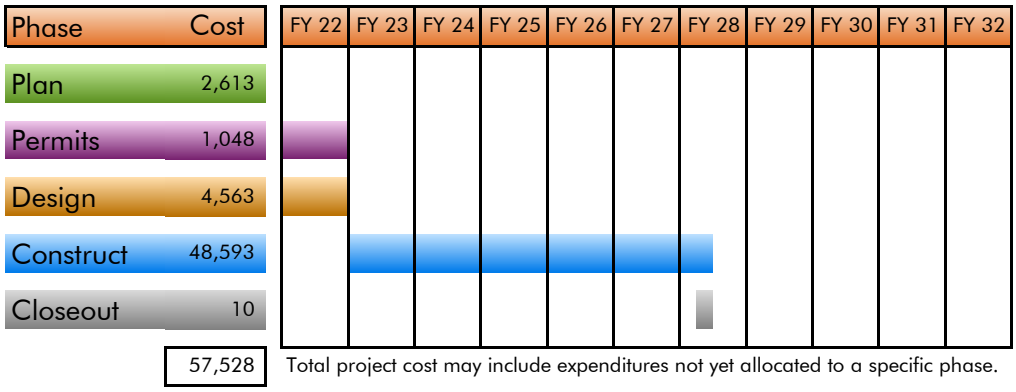
This project meets the commitments of the voter approved Safe, Clean Water (SCW), Priority D4.2. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION



SCHEDULE & STATUS

July 2011 to December 2027



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
26044001-Almaden Lake Improvements (D4.2)	7,078	9,870	20,855	19,000	650	25	25	25	57,528
with inflation	7,078	9,870	20,855	19,092	742	30	31	33	57,730

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
26044001-Almaden Lake Improvements (D4.2)	7,417	9,531	0	20,855	19,092	742	30	31	33	57,730

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe,Clean Water Fund	57,730
Other Funding Sources	0
Total	**57,730**

OPERATING COST IMPACTS

Annual post-construction operating costs for this project are anticipated at approximately $270,000 starting in FY28.

USEFUL LIFE: 100 Years

Environmental Enhancement & Stewardship

Coyote Watershed



Project	**Watershed Habitat Enhancements Design & Construction**
Program	Water Resources Stewardship - Coyote Watershed
Project No.	00C40400s
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



Aerial view looking downstream of the Ogier Pond complex

PROJECT DESCRIPTION

This project provides for future design and construction of possible habitat enhancements that may occur at Metcalf Ponds along Coyote Creek if feasible projects are identified by the feasibility study currently underway in project 62044001, and the Board approves proceeding with the work. It also provides funding for possible future construction at Ogier Ponds along Coyote Creek, if the Board approves implementing a project being planned under project 26044003. Funding for this project is contingent on a successful Fisheries and Aquatic Habitat Collaborative Effort settlement. This project accomplishes the following objective:

- Enhance a healthy steelhead trout and salmon population in the Coyote Creek Watershed.

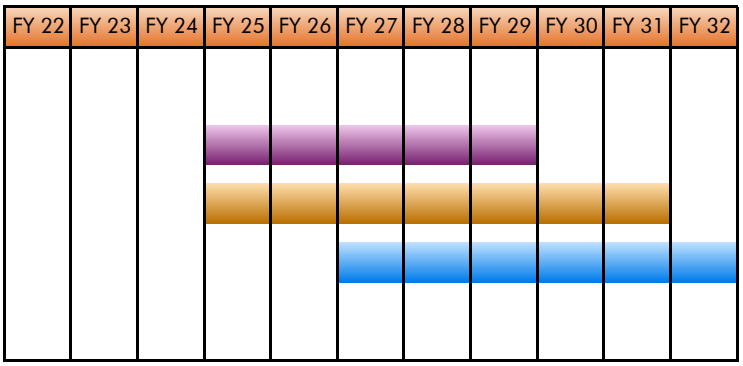
PROJECT LOCATION



SCHEDULE & STATUS

July 2024 to June 2033

Phase	Cost
Plan	-
Permits	1,427
Design	18,258
Construct	30,661
Closeout	-
	50,345



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
95C40400 Project 1 Design & Construction (e.g. Metcalf Ponds)	0	0	0	0	1,832	1,832	1,832	10,661	16,155
with inflation	0	0	0	0	2,090	2,184	2,282	13,100	19,657
00C40401s Project 2 Construction (e.g. Ogier Ponds)	0	0	0	0	0	0	0	34,190	34,190
with inflation	0	0	0	0	0	0	0	46,585	46,585
TOTAL	**0**	**0**	**0**	**0**	**1,832**	**1,832**	**1,832**	**44,851**	**50,345**
with inflation	**0**	**0**	**0**	**0**	**2,090**	**2,184**	**2,282**	**59,686**	**66,242**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
95C40400 Project 1 Design & Construction (e.g. Metcalf Ponds)	0	0	0	0	0	2,090	2,184	2,282	13,100	19,657
00C40401s Project 2 Construction (e.g. Ogier Ponds)	0	0	0	0	0	0	0	0	46,585	46,585
TOTAL	**0**	**0**	**0**	**0**	**0**	**2,090**	**2,184**	**2,282**	**59,686**	**66,242**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	42,950
SCVWD Watershed and Stream Stewardship Fund	23,293
SCVWD Safe, Clean Water Fund	0
Total	**66,242**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs for routine maintenance of the channel. The amount of the increase will be developed in the design phase, when adequate information on the staff-recommended alternative is available.

USEFUL LIFE: 50 years

Project	**SCW Ogier Ponds Separation from Coyote Creek (Planning & Design) (D4.1)**
Program	Water Resources Stewardship - Coyote Watershed
Project No.	26044003
Contact	John Bourgeois jbourgeois@valleywater.org



Ogier Pond complex looking downstream towards San José. Coyote Creek enters in lower left. The pond is bordered by Coyote Creek Trail on the right, and a cherry orchard on the left.

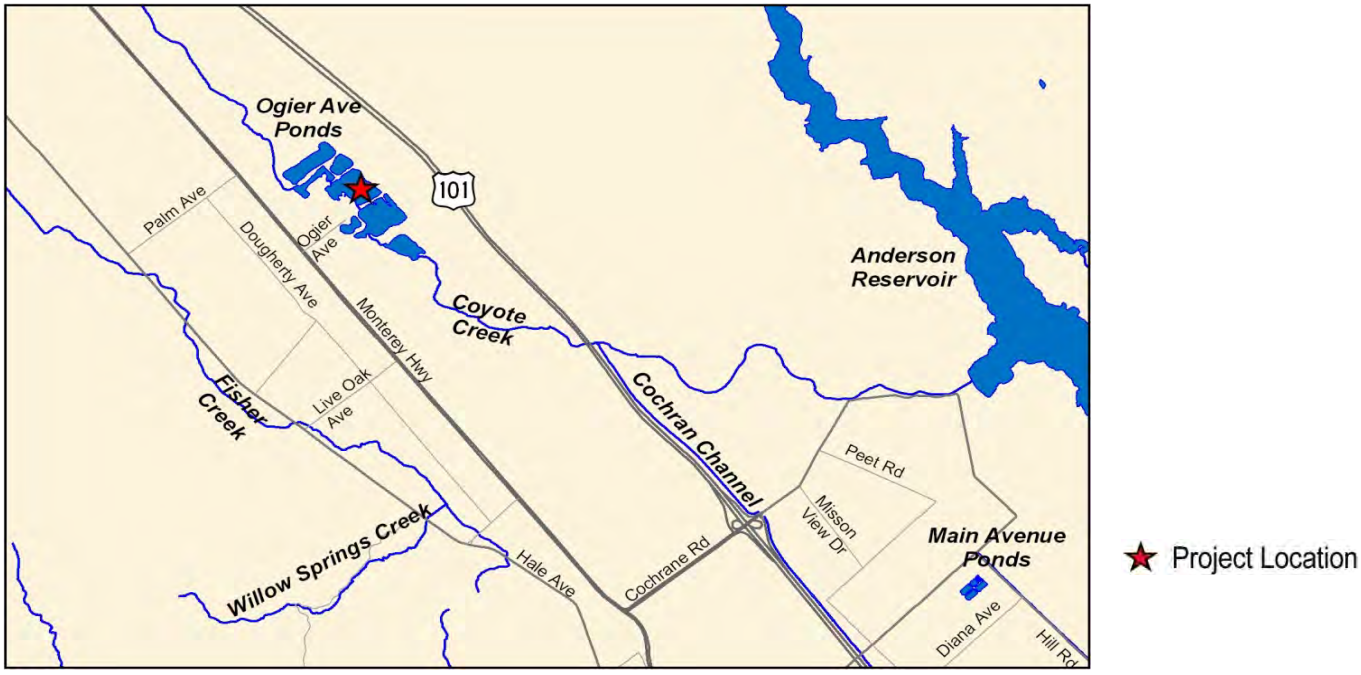
PROJECT DESCRIPTION

This project plans and designs improvements to separate Coyote Creek from Ogier Ponds. The project includes the following objectives:

- Work with County Parks to remediate the priority fish passage impediment named in the Fish and Aquatic Habitat Collaborative Effort (FAHCE) Settlement Agreement.
- Separate Coyote Creek from Ogier Pond complex.
- Work with County Parks to preserve existing recreational facilities and improve future opportunities.

This project was approved by the voters in the Safe, Clean Water Program (SCW) as Project D4.1 (planning & design phase). For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

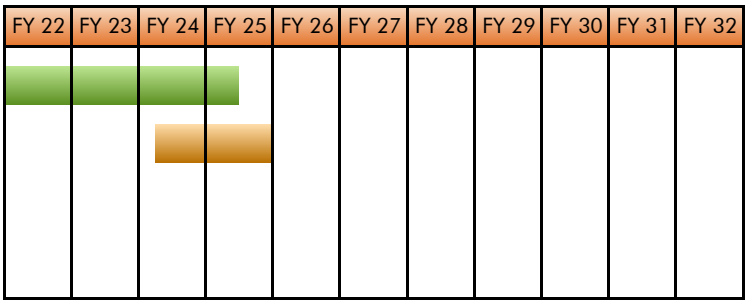
PROJECT LOCATION



SCHEDULE & STATUS

March 2019 through May 2025

Phase	Cost
Plan	3,484
Design	2,404
Construct	-
Closeout	-
	5,890



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
26044003-SCW Ogier Ponds Separation from Coyote Creek (Planning & Design) (D4.1)	412	1,121	1,230	1,773	1,355	0	0	0	5,890
with inflation	412	1,121	1,230	1,936	1,546	0	0	0	6,245

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
26044003-SCW Ogier Ponds Separation from Coyote Creek (Planning & Design) (D4.1)	1,598	1,051	1,116	113	1,936	1,546	0	0	0	6,245

Adjusted Budget includes adopted budget plus approved budget adjustments

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	6,245
Other Funding Sources	0
Total	**6,245**

OPERATING COST IMPACTS

No operating cost impacts are anticipated from this project, as it includes only the planning and design phases.

USEFUL LIFE: Not Available

Uvas/Llagas Watershed



Legend

- Major Capital Improvements
- Uvas/Llagas Watersheds
- Valley Water Watersheds
- Santa Clara County

Project	**Bolsa Road Fish Passage Improvements (D6.2)**
Program	Water Resources Stewardship - Uvas/Llagas Watershed
Project No.	26044004
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org



Removal of the Bolsa Road fish barrier will allow fish to travel upstream

PROJECT DESCRIPTION

This project removes a fish passage impediment at the Bolsa Road railroad bridge while incorporating geomorphic design features to restore bank stability and improve stream function. The project will accomplish the following objectives:

- Remediation of the fish passage impediment will allow access to approximately 22 miles of higher quality upstream habitat in the Uvas Watershed, as well as unimpeded access for out-migrant fish through the project site. A riffle pool system extending approximately 1,700 feet downstream of the Union Pacific Railroad bridge will also include geomorphic design features to restore bank stability and improve stream function.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project D6.2. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION

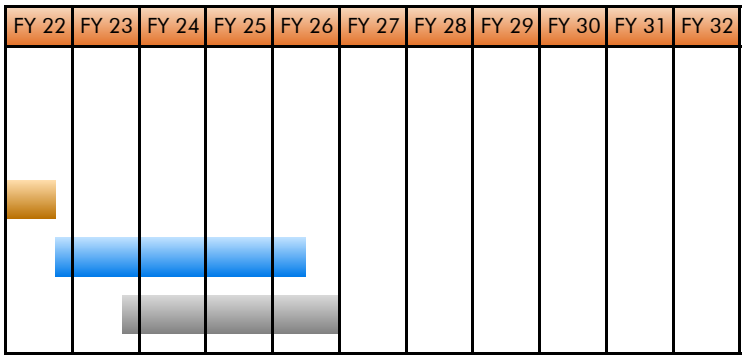


★ Project Location

SCHEDULE & STATUS

July 2015 to June 2026

Phase	Cost
Plan	-
Permits	67
Design	268
Construct	6,115
Closeout	50
	6,500



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
26044004-Bolsa Road Fish Passage Improvements (D6.2)	0	2,205	4,170	25	25	75	0	0	6,500
with inflation	0	2,205	4,170	27	29	89	0	0	6,521

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
26044004-Bolsa Road Fish Passage Improvements (D6.2)	0	2,205	0	4,170	27	29	89	0	0	6,521

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	6,521
Other Funding Sources	0
Total	**6,521**

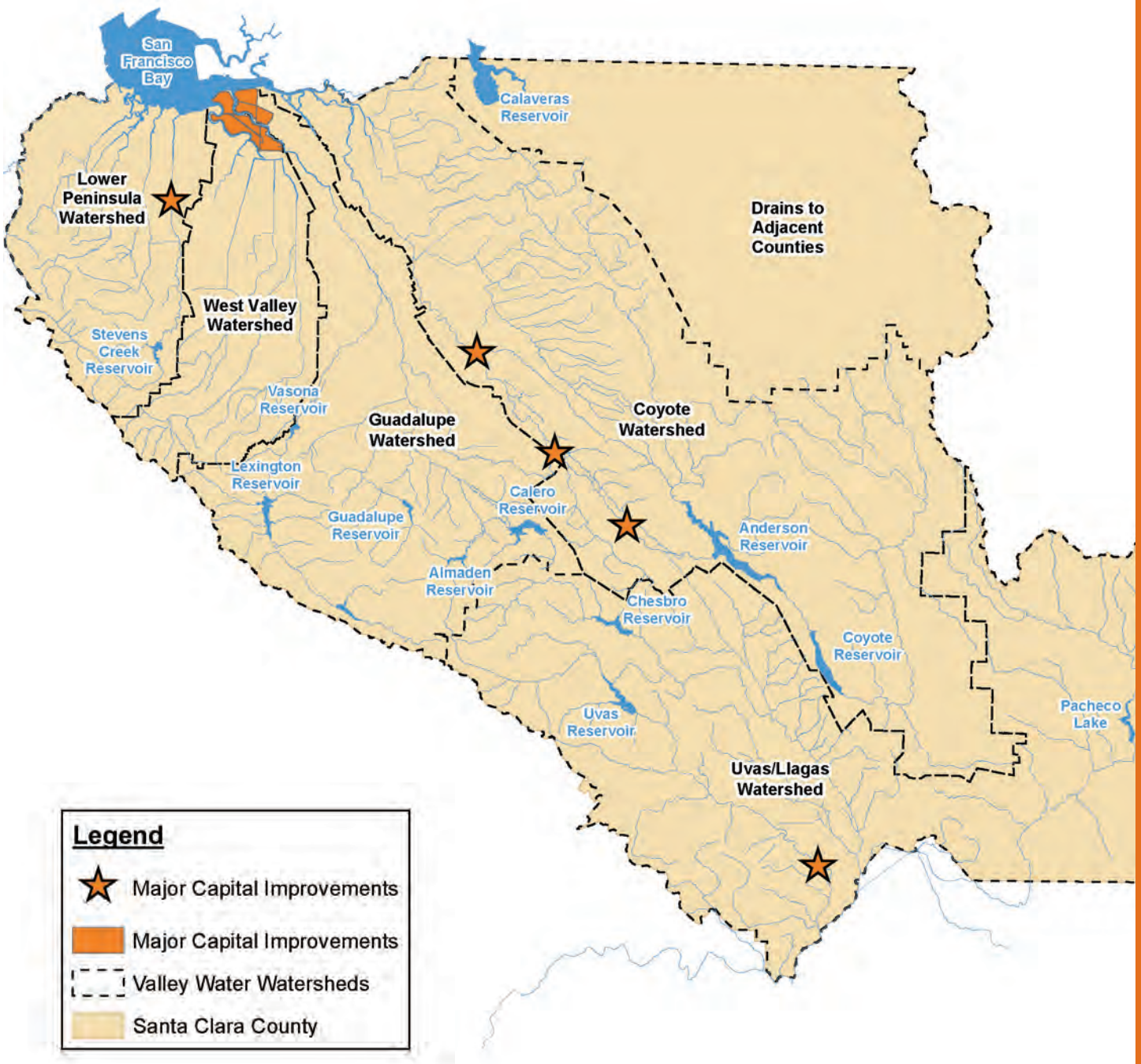
OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $20,000 per year beginning in

USEFUL LIFE: 50 Years

Environmental Enhancement & Stewardship

Multiple Watersheds



Project	**Calabazas/San Tomas Aquino Creek Marsh Connection**
Program	Water Resources Stewardship - Multiple Watersheds
Project No.	20444001s
Contact	John Bourgeois jbourgeois@valleywater.org



View of the former salt evaporation facilities near Alviso

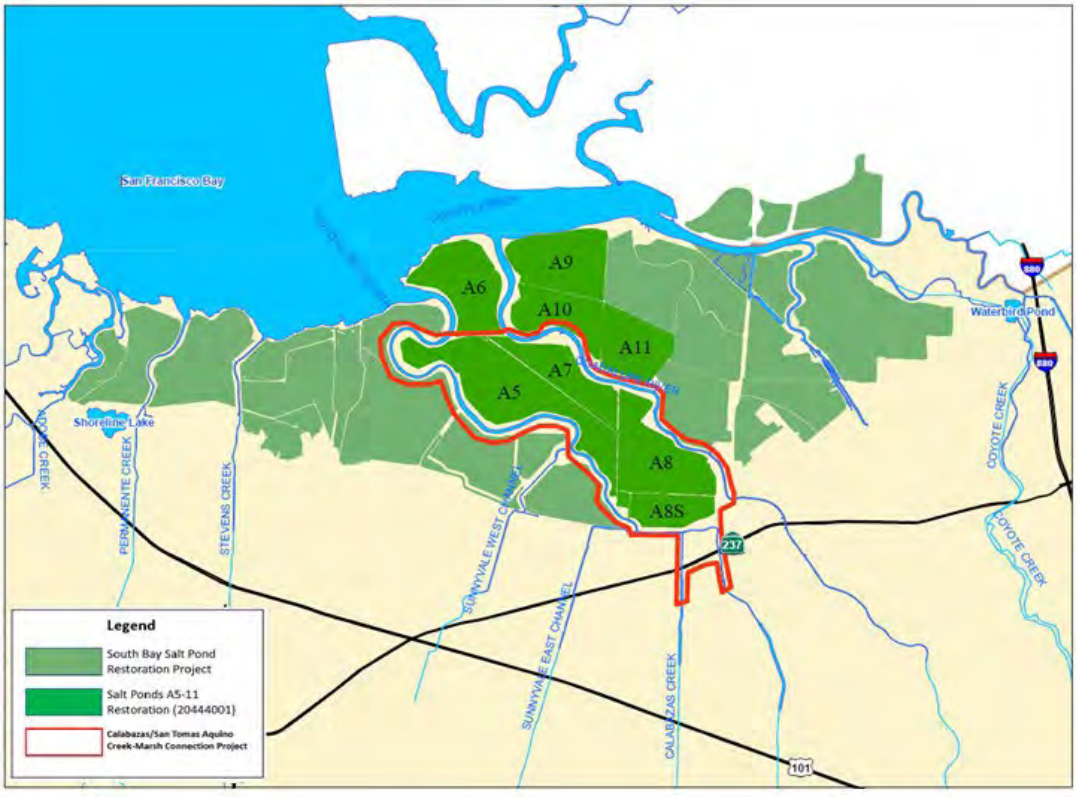
PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the South Bay Salt Ponds to accomplish the following objectives:

- Connect Calabazas and San Tomas Creeks directly to Pond A8.
- Reduce creek maintenance of lower reaches of Calabazas and San Tomas Creeks.
- Provide resilient flood protection against sea-level rise
- Improve recreational and public access opportunities.
- Support South Bay Salt Pond Restoration efforts.
- This project was formerly named Salt Ponds A5-11 Restoration.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project D8. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

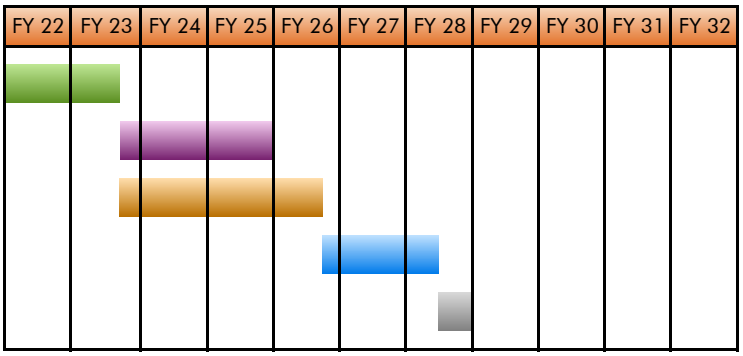
PROJECT LOCATION



SCHEDULE & STATUS

July 2021 to April 2029

Phase	Cost
Plan	8,351
Permits	1,360
Design	2,403
Construct	76
Closeout	5
	12,195



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
20444001 - Calabazas/San Tomas Aquino Creek Marsh Connection	5,346	1,920	752	1,474	1,395	866	129	5	11,887
with inflation	5,346	1,920	752	1,610	1,592	1,033	161	7	12,420
26444003 - South Salt Ponds Restoration (D8)	308	0	0	0	0	0	0	0	308
with inflation	308	0	0	0	0	0	0	0	308
TOTAL	**5,654**	**1,920**	**752**	**1,474**	**1,395**	**866**	**129**	**5**	**12,195**
with inflation	**5,654**	**1,920**	**752**	**1,610**	**1,592**	**1,033**	**161**	**7**	**12,728**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
20444001 - Calabazas/San Tomas Aquino Creek Marsh Connection	5,252	2,015	1	751	1,610	1,592	1,033	161	7	12,420
26444003 - South Salt Ponds Restoration (D8)	548	0	240	0	0	0	0	0	0	548
TOTAL	**5,800**	**2,015**	**241**	**751**	**1,610**	**1,592**	**1,033**	**161**	**7**	**12,968**

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $240,000. Excess funding will be returned to reserves upon the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	12,420
SCVWD Safe, Clean Water Fund	548
SFBRA Measure AA	3,370
California Department of Fish and Wildlife	500
Total	**16,838**

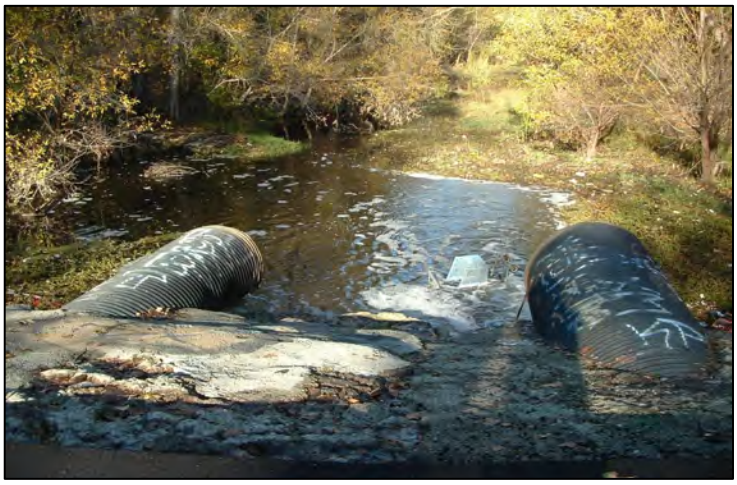
OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $4 million every three years, beginning in FY24, by reducing on-going sediment removal.

USEFUL LIFE:

Not Available

Project	**SCW Fish Passage Improvements (D4.3)**
Program	Water Resources Stewardship - Multiple Watersheds
Project No.	26044002
Contact	John Bourgeois jbourgeois@valleywater.org



Fish barrier across Coyote Creek at Singleton Road

PROJECT DESCRIPTION

This project plans, designs and constructs improvements for two high priority fish barriers in Santa Clara County. Valley Water has partnered with the City of San José to remove the fish passage barrier at the city-owned Singleton Road crossing on Coyote Creek near Capitol Expressway. The project will remove the barrier and restore a free-flowing condition for migratory fish in Coyote Creek. The Evelyn Bridge Road project was completed in November 2015 to remove a migratory fish passage barrier that redirects high flow events leaving the channel dry under the bridge and downstream of the fish ladder. Removal of the barrier under Evelyn Bridge provided nearly 9 miles of creek habitat along Stevens Creek. The project also contributed funds for planning and design of the Bolsa Road Fish Passage Project. During the design phase, this project was removed because the geomorphic design features identified were determined to be better aligned with Project D6 under the Safe, Clean Water Program. The project objectives are as follows:

- Planning, design and construction for a passage impediment at the Evelyn Bridge preventing upstream/downstream movement of steelhead in the Stevens Creek watershed. Remediation of this barrier will facilitate movement to 8.8 miles of higher quality upstream habitat and allow for out-migrant fish to access San Francisco Bay unimpeded. (Completed in 2016)
- Execute a partnership agreement to provide technical support to the City of San José for removal of the Singleton Road low water crossing in Coyote Creek. Removal of the fish passage barrier will provide migratory fish access to approximately 18 miles of creek habitat upstream from the site and will allow for unimpeded access of out-migrant fish through the site. An interim project will install a temporary flatcar bridge to meet these objectives. The City of San José will continue to seek funding for the permanent bridge solution.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project D4.3. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

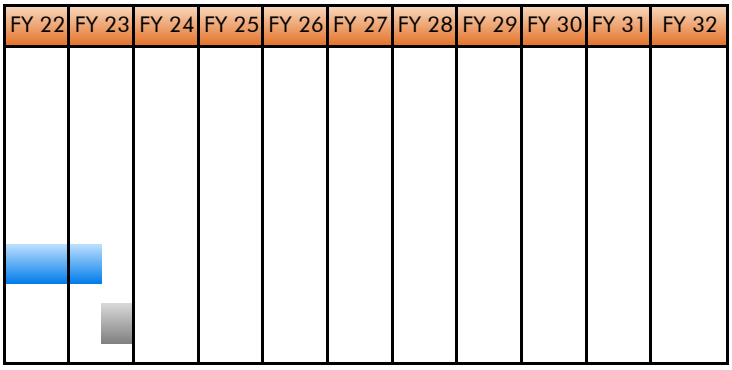
PROJECT LOCATION



SCHEDULE & STATUS

July 2015 to June 2023

Phase	Cost
Plan	391
Permits	519
Design	2,189
Construct	2,158
Closeout	-
	6,324



Total project cost may include expenditures not yet allocated to a specific pho

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
26044002-SCW Fish Passage Improvements (D4.3)	5,152	980	192	0	0	0	0	0	6,324
with inflation	5,152	980	192	0	0	0	0	0	6,324

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
26044002-SCW Fish Passage Improvements (D4.3)	5,328	980	176	16	0	0	0	0	0	6,324

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	6,324
Other Funding Sources	0
Total	**6,324**

OPERATING COST IMPACTS

TBD

USEFUL LIFE: 50 Years

Project	**SCW Implementation: Fish Passage Improvements (Future D4)**
Program	Water Resources Stewardship - Multiple Watersheds
Project No.	26C40370
Contact	John Bourgeois jbourgeois@valleywater.org



This project seeks to help restore populations of native fish species, such as steelhead trout by removing impediments to the passage of fish for spawning

PROJECT DESCRIPTION

This project is a placeholder for future capital projects that have not been fully defined. The project(s) will implement the renewed Safe, Clean Water (SCW) objectives for Project D4 Fish Habitat and Passage Improvement projects that remove barriers to fish passage. Funds will be moved from this placeholder into projects once they have been defined and vetted to ensure they meet the following program objectives:

- Improve habitat and passage for Steelhead and other native fish of Santa Clara County.

PROJECT LOCATION

No map is provided for this project

SCHEDULE & STATUS

July 2024 to June 2032

Data provided is based on preliminary information. Specific projects identified to move forward will require further refinement. A Phase schedule will be defined in the planning phase.

Phase	Cost
Plan	-
Design	-
Construct	6,813
Closeout	-
	6,813

FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32

Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
26C40370-SCW Implementation: Fish Passage Improvements (Future D4)	0	0	0	0	2,127	1,184	1,000	2,502	6,813
with inflation	0	0	0	0	2,127	1,184	1,000	2,502	6,813

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
26C40370-SCW Implementation: Fish Passage Improvements (Future D4)	0	0	0	0	0	2,127	1,184	1,000	2,502	6,813

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	6,813
Total	**6,813**

OPERATING COST IMPACTS

No operating cost impacts are anticipated from this project, as it is a placeholder project only.

USEFUL LIFE: Not Available

Feasibility Studies



Project	**Watershed Habitat Enhancements**
Program	Water Resources Stewardship - Feasibility Studies
Project No.	62044001
Contact	John Bourgeois jbourgeois@valleywater.org



Aerial view looking downstream of the Ogier Pond complex

PROJECT DESCRIPTION

This project provides for feasibility studies of possible habitat enhancements at the Ogier Ponds and Metcalf Ponds along Coyote Creek, and an evaluation and determination of priority for addressing various fish passage barriers along Stevens Creek. This project accomplishes the following objectives:

- Enhance a healthy steelhead trout and salmon population in the Coyote Creek Watershed.
- Provide adequate passage for adult steelhead trout to reach suitable spawning and rearing habitat and for out-migration of juveniles along Stevens Creek.

PROJECT LOCATION



SCHEDULE & STATUS

April 2017 to June 2021

Phase	Cost
Plan	2,610
Permits	-
Design	36
Construct	-
Closeout	-
	3,736

FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32

Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
62044001-Watershed Habitat Enhancements	3,736	0	0	0	0	0	0	0	3,736
with inflation	3,736	0	0	0	0	0	0	0	3,736

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
62044001-Watershed Habitat Enhancements	4,099	0	363	0	0	0	0	0	0	4,099

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $363,000. Excess funding will be returned to reserves upon project completion.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed & Stream Stewardship Fund	4,099
Other Funding Sources	0
Total	**4,099**

OPERATING COST IMPACTS

No operating impacts are anticipated from this project because this is a feasibility study.

USEFUL LIFE: N/A

Buildings and Grounds

Buildings and Grounds Capital Improvements

BUILDINGS AND GROUNDS OVERVIEW

Valley Water's Almaden-Winfield campus occupies nearly 50 acres along Almaden Expressway in the City of San Jose. Valley Water manages the campus to ensure a healthful and safe work environment for employees and visitors. The campus includes 10 buildings, multiple parking lots, a corporation yard, landscaping, and other appurtenances.

With most of the buildings on campus over 30 years old, the rehabilitation needs have steadily increased in recent years. Valley Water administers an asset management program for its buildings and grounds infrastructure that includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

Major Capital Improvements Identified in the CIP

- Facility Management, Small Capital Improvements
- Headquarters Operations Building
- Security Upgrades and Enhancements

CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February.

The Board then authorizes release of the Draft CIP to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the Final CIP in May.

Financial analysis of the following funding sources for buildings and grounds capital improvements was conducted to determine if there are limitations to funding all the proposed capital projects:

- Watershed and Stream Stewardship Fund
- General Fund
- Water Utility Enterprise Fund

The CIP Planning Process concluded that the Facility Management, Small Capital Improvements funding totals $4 million per year to meet Buildings and Grounds needs. Valley Water's Almaden Campus facilities are at or approaching full capacity. Staff, with the assistance of a consultant, are exploring alternatives to improve the facilities on the Almaden and Winfield campus, upgrade the employee work environment and maintain Valley Water facility assets.

Significant Project Updates from the Prior Year

A new Buildings and Grounds project was created for inclusion in the FY 2023-27 CIP. The Security Upgrades and Enhancements Project will significantly enhance overall security at Valley Water facilities through technological and physical upgrades and enhancements. This project includes designing and installing a modern technical security system capable of meeting today's security and investigative requirements and improves physical security for critical facilities and assets.

Buildings and Grounds Capital Improvements

The following table is a project funding schedule for buildings and grounds capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2021-22.

Project Number	PROJECT NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
60204016	Facility Management, Small Capital Improvements	n/a	4,000	-	4,000	4,000	4,000	4,000	4,000	16,000	40,000
60204022	Security Upgrades and Enhancements	0	-	-	314	328	338	349	7,025	8,216	16,570
60204032	Headquarters Operations Building	20	2,000	-	2,080	6,361	2,282	2,385	-	-	15,128
	TOTAL	20	6,000	-	6,394	10,689	6,620	6,734	11,025	24,216	71,698

FY 2021-22 Funds to be reappropriated

The following table shows funding requirements from each funding source for buildings and grounds capital improvements.

Buildings and Grounds - Funding Sources ($K)

Fund Number	FUND NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
11	General Fund	20	6,000	-	6,394	10,689	6,620	6,734	11,025	24,216	71,698
	TOTAL	20	6,000	-	6,394	10,689	6,620	6,734	11,025	24,216	71,698

FY 2021-22 Funds to be reappropriated

Project	**Facility Management, Small Capital Improvements**
Program	Buildings and Grounds
Project No.	60204016
Contact	Tina Yoke tyoke@valleywater.org

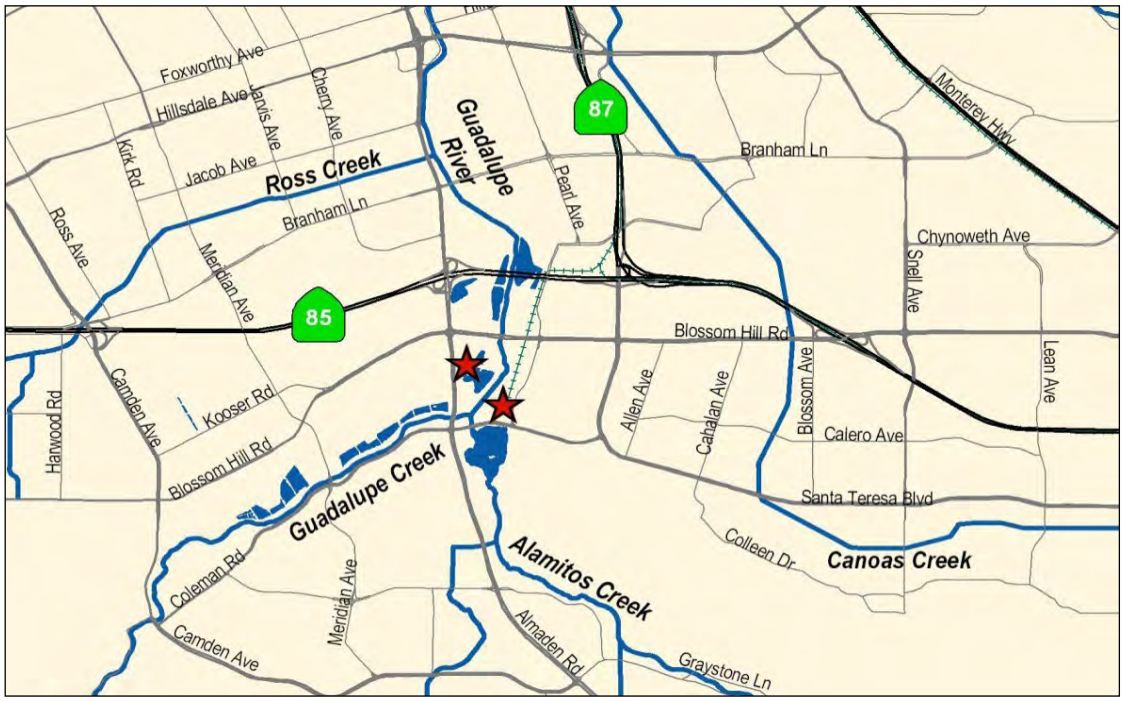


Front view of the Headquarters building at the Almaden Campus

PROJECT DESCRIPTION

This project reserves funding for capital maintenance and replacement of buildings, grounds, and facilities on the Almaden and Winfield campus, to provide a healthy and safe environment for staff and visitors.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

Improvements will be managed on an as-needed basis throughout the year.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
60204016Facility Management, Small Capital Improvements	n/a	4,000	4,000	4,000	4,000	4,000	4,000	16,000	40,000
with inflation	n/a	4,000	4,000	4,000	4,000	4,000	4,000	16,000	40,000

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY21**	**FY22**		**FY23**	**FY24**	**FY25**	**FY26**	**FY27**	**Future**	
60204016Facility Management, Small Capital Improvements	n/a	4,000	0	4,000	4,000	4,000	4,000	4,000	16,000	40,000

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	40,000
Other Funding Source	0
Total	**40,000**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Security Upgrades and Enhancements Project**
Program	Buildings and Grounds
Project No.	60204022
Contact	Alex Gordon Agordon@valleywater.org



This project will provide security upgrades at Valley Water

PROJECT DESCRIPTION

This project will significantly enhance overall security at Valley Water facilities by designing and installing a modern technical security system capable of meeting today's security and investigative requirements in order to counter the security threats of theft, trespass, and vandalism so that Valley Water can continue to meet its mission of providing Silicon Valley safe, clean water for a healthy life, environment, and economy.

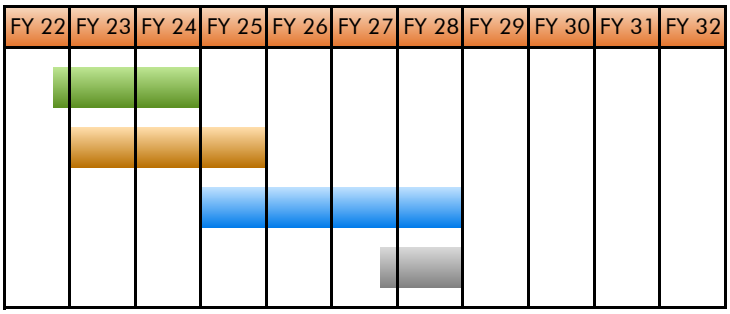
PROJECT LOCATION

No map is provided for this project

SCHEDULE & STATUS

July 2022 to June 2028

Phase	Cost
Plan	344
Design	440
Construct	13,160
Closeout	70
	14,014



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
60204022-Security Upgrades and Enhancements Project	0	0	314	300	300	300	6,000	6,800	14,014
with inflation	0	0	314	328	338	349	7,025	8,216	16,570

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
60204022-Security Upgrades and Enhancements Project	0	0	0	314	328	338	349	7,025	8,216	16,570

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	16,570
Other Funding Sources	0
Total	**16,570**

OPERATING COST IMPACTS

TBD

USEFUL LIFE: TBD

Project	**Headquarters Operations Building**
Program	Buildings and Grounds
Project No.	60204032
Contact	Tina Yoke tyoke@valleywater.org



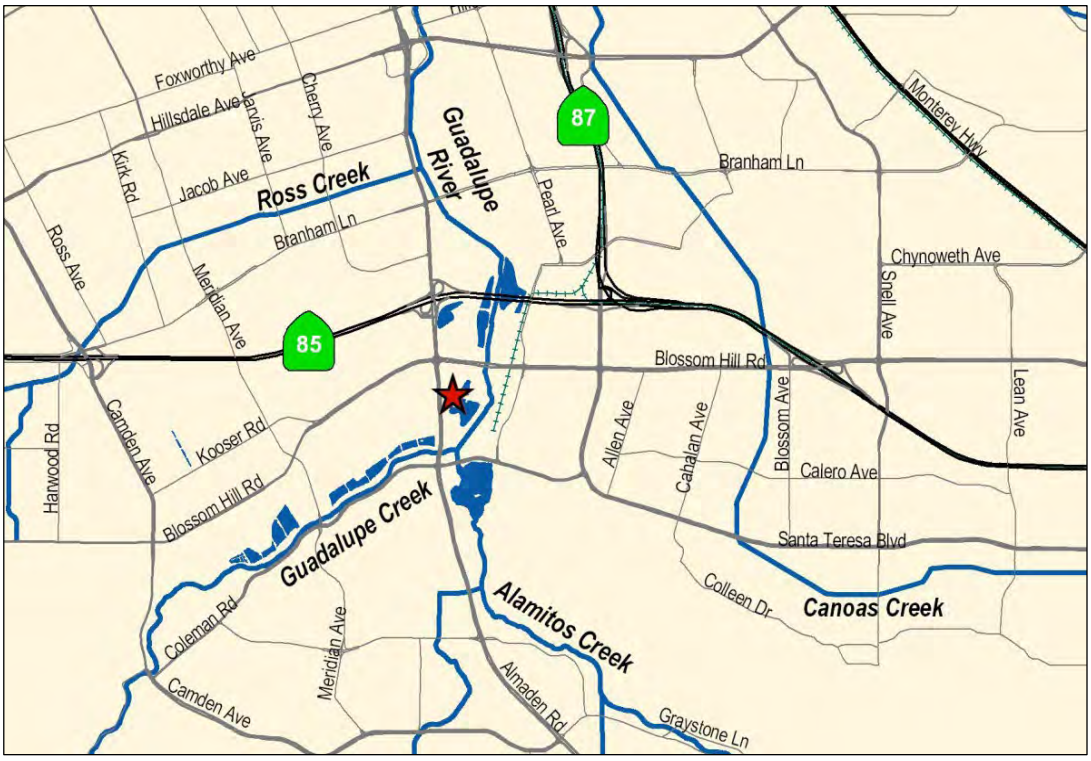
Existing Maintenance Building

PROJECT DESCRIPTION

This project is a placeholder to plan, design, and construct future facilities or improvements to existing facilities. This project accomplishes the following objectives:

- Replace office space in the Maintenance Office Building to provide a safe and healthy work environment.
- Provide adequate and sufficient space to enable Valley Water to efficiently perform its core business.

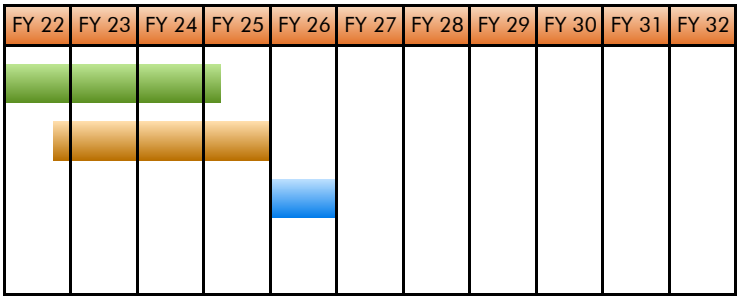
PROJECT LOCATION



SCHEDULE & STATUS

July 2014 to June 2026

Phase	Cost
Plan	2,156
Design	2,030
Construct	9,803
Closeout	50
	14,040



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
60204032-Headquarters Operations Building	20	2,000	2,080	5,940	2,000	2,000	0	0	14,040
with inflation	20	2,000	2,080	6,361	2,282	2,385	0	0	15,128

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
60204032-Headquarters Operations Building	20	2,000	0	2,080	6,361	2,282	2,385	0	0	15,128

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	15,128
Other Funding Sources	0
Total	15,128

OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

USEFUL LIFE:

Not Available

Information Technology

Information Technology Capital Improvements

INFORMATION TECHNOLOGY OVERVIEW

Valley Water relies on its software systems and technology infrastructure to help manage its core responsibilities of water supply, flood protection, and environmental stewardship. Recognizing the importance of Information Technology to its success, Valley Water created a new IT Strategic Plan in 2019. The strategy extends through 2024 and consists of 67 capital and non-capital projects focusing on the following critical pillars: Data and Analytics, Modernization, Partnership and Alignment, and Security.

In 2014, the Information Technology Capital Fund was created. It accounts for the costs to acquire, and install capital information technology projects with Valley Water-wide benefit. Projects include acquisition and replacement of computers, networks, and communications systems as well as major investments in enterprise software systems and cybersecurity.

Costs are billed to user departments as Intra-District Computer Equipment Charges. Billing rates will be set to smooth charges over time by recovering current costs and accumulating reserves for major planned future projects. Current year charges or a combination of current year charges and reserves may be used to fund authorized projects. The purpose of this fund is to provide adequate resources while avoiding peaks and valleys in charges to user departments.

Major Capital Improvements Identified in the CIP

- Data Consolidation
- Information Technology Disaster Recovery
- ERP System Implementation
- Software Upgrades & Enhancements
- WTP-WQL Network Equipment

CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February.

The Board then authorizes release of the Draft CIP to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the Final CIP in May.

Financial analysis of the Information Technology Capital Fund was conducted to determine if there are limitations to funding the planned capital projects.

Through the CIP Planning Process and financial analysis, it was determined that funding needs for approved Information Technology projects can be met.

Information Technology Capital Improvements

The following table is a project funding schedule for information technology capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2021-22.

Information Technology Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
73274009	Data Consolidation	1,157	75	738	-	-	40	-	-	-	1,272
73274001	IT Disaster Recovery	2,396	206	81	-	3	-	-	-	-	2,605
73274002	ERP System Implementation	16,865	519	-	237	-	-	-	-	-	17,621
73274008	Software Upgrades & Enhancements	4,055	345	-	1,234	1,258	1,104	741	2,015	3,236	13,988
73274012	Telephone System Voiceover IP	1,248	-	-	-	-	-	-	-	-	1,248
95274003	WTP-WQL Network Equipment	2,908	204	-	1,274	2,456	1,000	274	130	3,009	11,255
	TOTAL	28,629	1,349	819	2,745	3,717	2,144	1,015	2,145	6,245	47,989

FY 2021-22 Funds to be reappropriated

The following table shows funding requirements from each funding source for information technology capital improvements.

Information Technology - Funding Sources ($K)

Fund Number	FUND NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
61	Water Utility Enterprise Fund	2,908	204	-	1,274	2,456	1,000	274	130	3,009	11,255
73	Information Technology Fund	25,721	1,145	819	1,471	1,261	1,144	741	2,015	3,236	36,734
	TOTAL	28,629	1,349	819	2,745	3,717	2,144	1,015	2,145	6,245	47,989

FY 2021-22 Funds to be reappropriated

Project	**Data Consolidation**
Program	Information Technology
Project No.	73274009
Contact	Mike Cook mcook@valleywater.org



Data consolidation will reduce Valley Water's data footprint

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to data management to accomplish the following objectives:

- Implement an enterprise content management (ECM) system with strong business intelligence.
- Move from an applications-centric model to a data-centric model, thereby removing silos of data stores.
- Manage data as a strategic core asset, with ongoing process and management control for data analytics.
- Provide and gain rapid insights using data analytics to solve complex business problems.
- Reduce the overall data footprint.

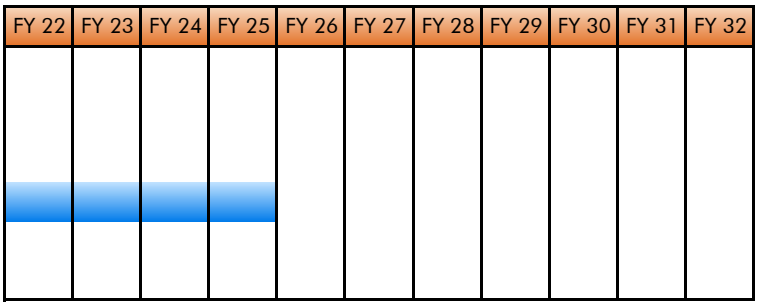
PROJECT LOCATION

No Map is provided for this project

SCHEDULE & STATUS

July 2015 to June 2025

Phase	Cost
Plan	-
Design	-
Construct	1,245
Closeout	-
	1,245



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
73274009-Data Consolidation	194	300	362	350	39	0	0	0	1,245
with inflation	194	300	362	373	43	0	0	0	1,272

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
73274009-Data Consolidation	1,157	75	738	0	0	40	0	0	0	1,272

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Information Technology Fund	1,272
Other Funding Sources	0
Total	**1,272**

OPERATING COST IMPACTS

The enterprise content management system will require a software license agreement at an approximate cost of $100,000 per year. The cost is included in the Software Maintenance and Licenses project. Any future upgrade costs would be budgeted in the Information Technology Fund.

USEFUL LIFE: 3-5 Years

Project	**Information Technology Disaster Recovery**
Program	Information Technology
Project No.	73274001
Contact	Michael Cook mcook@valleywater.org



Existing Data Center that houses critical servers supporting Valley Water's normal operations

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to Information Technology to accomplish the following objectives:

- Enable coordinated, rapid recovery from a disaster.
- Reduce Valley Water's business risk exposure.

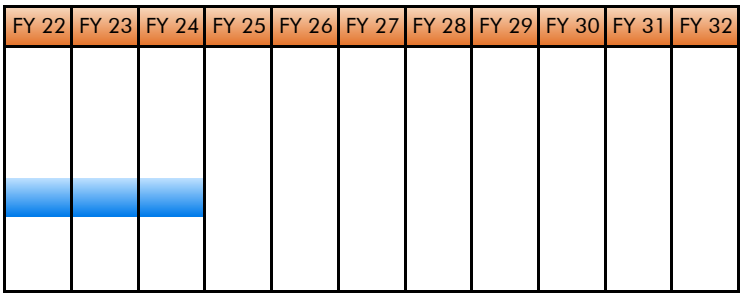
PROJECT LOCATION

No Map is provided for this project

SCHEDULE & STATUS

July 2014 to June 2024

Phase	Cost
Plan	14
Design	12
Construct	2,576
Closeout	-
	2,602



Total project cost may include expenditures not yet allocated to a specific phase

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
73274001-Information Technology Disaster Recovery	684	1,837	41	40	0	0	0	0	2,602
with inflation	684	1,837	41	43	0	0	0	0	2,605

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
73274001-Information Technology Disaster Recovery	2,396	206	81	0	3	0	0	0	0	2,605

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Information Technology Fund	2,605
Other Funding Sources	0
Total	**2,605**

OPERATING COST IMPACTS

Ongoing annual costs will be determined at the completion of construction, and will be based on implemented

USEFUL LIFE:

Not Available

Project	**ERP System Implementation**
Program	Information Technology
Project No.	73274002
Contact	Michael Cook mcook@valleywater.org



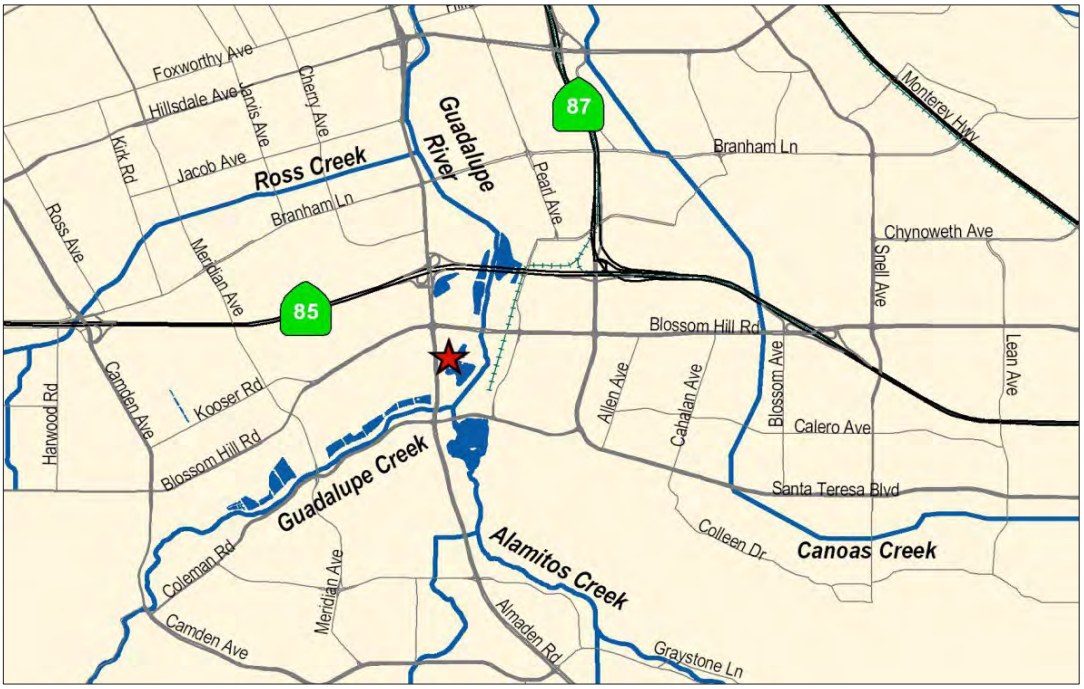
The new ERP system aims to increase operational efficiency

PROJECT DESCRIPTION

This project selects and implements a new cloud-based, integrated, proven and state-of-the-art Enterprise Resource Planning (ERP) system to replace the current out-of-date ERP application. Below are the objectives:

- Provide up-to-date functionalities for Finance, HR, Payroll, Contracts, Procurement, Inventory, and Warehouse areas, and to reengineer business processes to ensure that Valley Water takes full advantage of the software's inherent capabilities.
- Increase operational effectiveness, reduce costs and improve management decision-making processes by increasing the ability to access and analyze data.
- Leverage a cloud platform to improve the availability of Financials, Supply Chain, Human Resources, and Payroll data.
- Minimize customizations and adopt best standard business practices during implementation.

PROJECT LOCATION

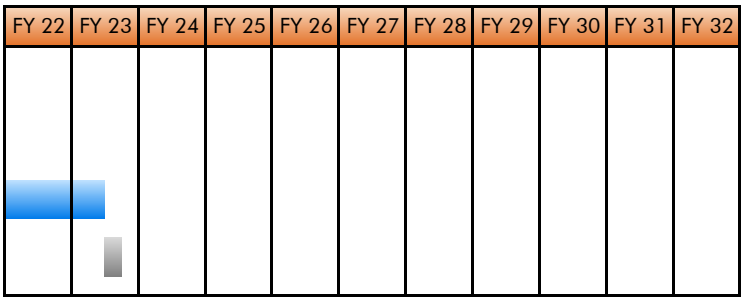


★ Project Location

SCHEDULE & STATUS

July 2013 to March 2023

Phase	Cost
Plan	1,438
Design	-
Construct	17,382
Closeout	-
	18,820



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
60274062-ERP System Implementation	1,199	0	0	0	0	0	0	0	1,199
with inflation	1,199	0	0	0	0	0	0	0	1,199
73274002-ERP System Implementation	15,104	2,280	237	0	0	0	0	0	17,621
with inflation	15,104	2,280	237	0	0	0	0	0	17,621
TOTAL	16,303	2,280	237	0	0	0	0	0	18,820
with inflation	16,303	2,280	237	0	0	0	0	0	18,820

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
60274062-ERP System Implementation	1,199	0	0	0	0	0	0	0	0	1,199
73274002-ERP System Implementation	16,865	519	0	237	0	0	0	0	0	17,621
TOTAL	18,064	519	0	237	0	0	0	0	0	18,820

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	1,199
SCVWD Information Technology Fund	17,621
Total	18,820

OPERATING COST IMPACTS

Upon completion of this project, one additional full-time employee will be required within the Software Services Unit for expanded technical support of the new system modules and features, and to continue with operational refinements, enhancements, integrations, report development.

USEFUL LIFE: 5 Years

Project	**Software Upgrades & Enhancements**
Program	Information Technology
Project No.	73274008
Contact	Michael Cook mcook@valleywater.org



Existing systems will be upgraded and enhanced

PROJECT DESCRIPTION

This project provides upgrade and enhancement services to existing Valley Water systems, including the enterprise resource planning system, geographic information system, enterprise asset management software Maximo, the Oracle database management system, internal and external Valley Water websites, and related databases. Previously, software upgrades were budgeted to their individual respective maintenance and support projects. This new project aims to consolidate activities into a single project for better organization, planning and budgeting purposes.

The objective of this project is to regularly upgrade existing software packages to:

- Stay in compliance and reduce risks associated with being on a version that is no longer supported.
- Leverage new functionalities of up-to-date software.

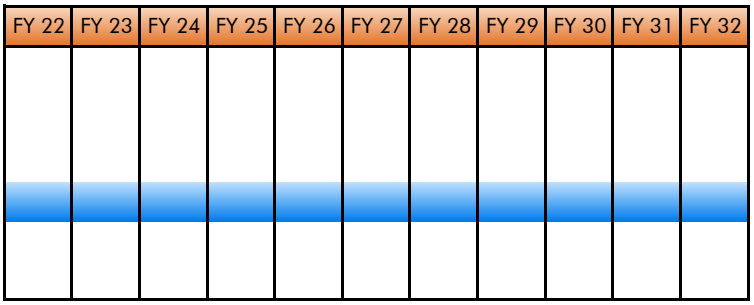
PROJECT LOCATION

No Map is provided for this project.

SCHEDULE & STATUS

July 2015 to June 2032

Phase	Cost
Plan	325
Design	221
Construct	10,610
Closeout	-
	12,749



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
73274008-Software Upgrades & Enhancements	2,237	2,163	1,234	1,180	1,005	655	1,730	2,545	12,749
with inflation	2,237	2,163	1,234	1,258	1,104	741	2,015	3,237	13,989

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
73274008-Software Upgrades & Enhancements	4,055	345	0	1,234	1,258	1,104	741	2,015	3,237	13,989

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Information Technology Fund	13,989
Other Funding Sources	0
Total	**13,989**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Telephone System Voice Over IP**
Program	Information Technology
Project No.	73274012
Contact	Michael Cook mcook@valleywater.org



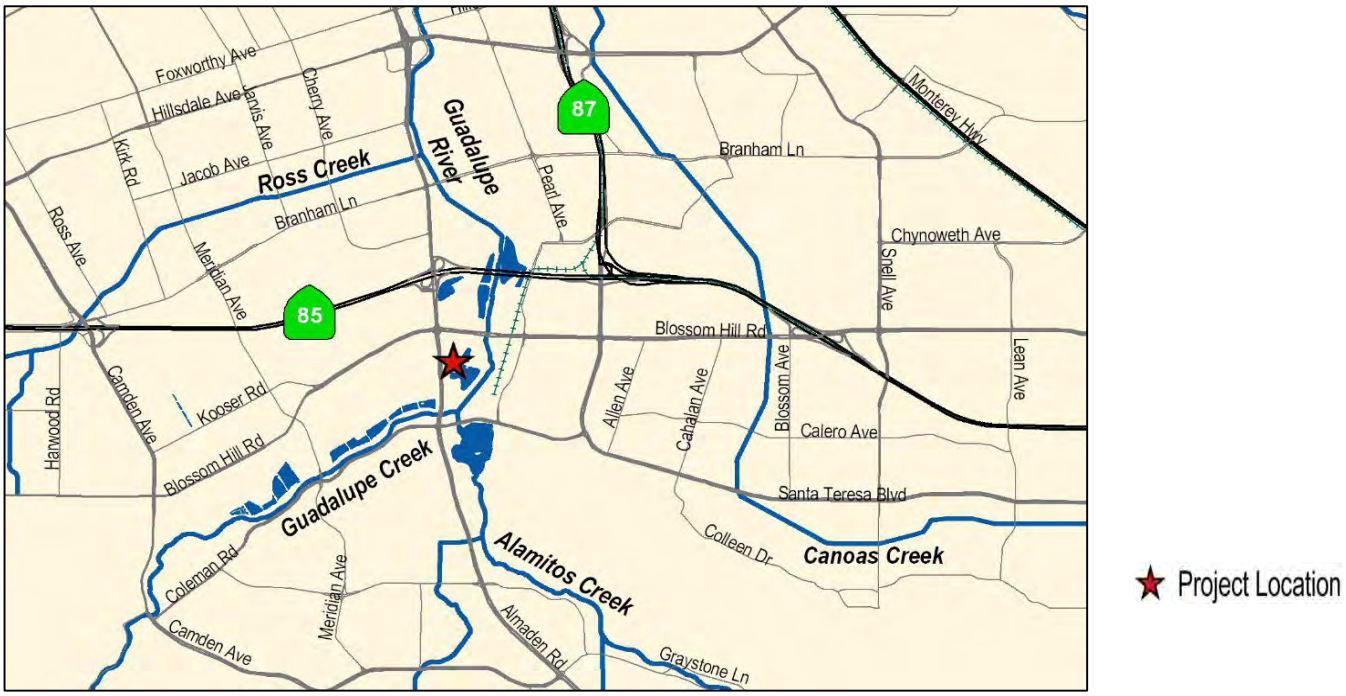
The current Avaya Telephone System was first installed in the Administration Building in 1986

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to Valley Water's telephone system to accomplish the following objective:

- Replace current Avaya digital phone stations with new Ring Central Voice Over IP phone stations.

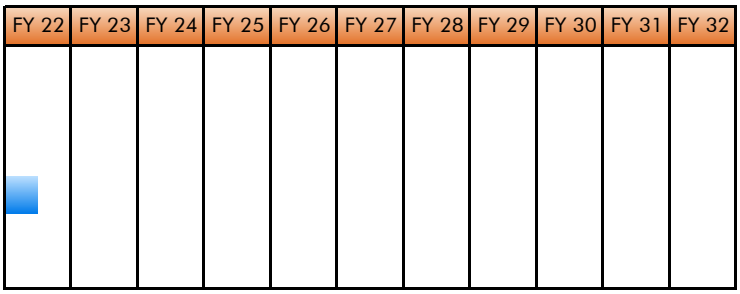
PROJECT LOCATION



SCHEDULE & STATUS

July 2019 to December 2021

Phase	Cost
Plan	-
Design	-
Construct	937
Closeout	-
	1,248



Total project cost may include expenditures not yet allocated to a specific phase.

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY1	FY22	FY23	FY24	FY25	FY26	FY27	Future	
73274012-Telephone System Voice Over IP	311	937	0	0	0	0	0	0	1,248
with inflation	311	937	0	0	0	0	0	0	1,248

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
73274012-Telephone System Voice Over IP	1,248	0	0	0	0	0	0	0	0	1,248

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Information Technology Fund	1,248
Other Funding Sources	0
Total	**1,248**

OPERATING COST IMPACTS

N/A

USEFUL LIFE: 7-10 Years

Project	**WTP-WQL Network Equipment**
Program	Information Technology
Project No.	95274003
Contact	Michael Cook mcook@valleywater.org



This project replaces and upgrades existing network structures

PROJECT DESCRIPTION

This project plans, designs, and implements upgrades to the existing network to ensure that Valley Water has a current and robust computer network to accomplish the following objectives:

- Deliver greater access speeds.
- Restore vendor maintenance.
- Improve software application performance.
- Provide a path to meet future data communications needs.

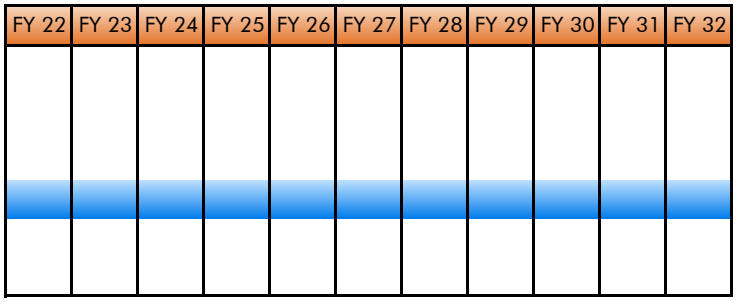
PROJECT LOCATION



SCHEDULE & STATUS

July 2014 to June 2032

Phase	Cost
Plan	-
Design	-
Construct	10,035
Closeout	-
	10,035



Total project cost may include expenditures not yet allocated to a specific phas

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY21	FY22	FY23	FY24	FY25	FY26	FY27	Future	
95274003-WTP-WQL Network Equipment	3,023	89	1,274	2,249	876	230	104	2,190	10,035
with inflation	3,023	89	1,274	2,456	1,000	274	130	3,010	11,255

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY21	FY22		FY23	FY24	FY25	FY26	FY27	Future	
95274003-WTP-WQL Network Equipment	2,908	204	0	1,274	2,456	1,000	274	130	3,010	11,255

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	11,255
Other Funding Sources	0
Total	**11,255**

OPERATING COST IMPACTS

Upon completion of this project operating costs are anticipated to increase by $37,000 beginning in FY33 with an increase of 3% each year after that to pay for hardware maintenance agreements.

USEFUL LIFE: 10 Years

Financial Planning

Financial Planning and Summary

CIP FINANCIAL PLANNING

Board policy regarding financial planning and budgeting provides the foundation for CIP financial planning. The policy states:

Executive Limitation EL-4, "Financial planning for any fiscal year shall be aligned with the Board's Ends, not risk fiscal jeopardy, and be derived from a multi-year plan."

> Executive Limitation EL-4.3, "A BAO shall include credible projection of revenues and expenses, separation of capital and operational items, cash flow, staffing needs, external services, and disclosure of planning assumptions."

> Executive Limitation EL-4.4, "A BAO shall plan the expenditure in any budget period within the funds that are conservatively projected to be received or appropriated from reserves in that period."

KEY REVENUES SOURCES

Water Charges

- Water charges include a ground water production charge, which is equivalent to the basic user charge, and is associated with the benefit of managing groundwater supplies. The groundwater charge is applied to water extracted from the groundwater basin in Zones W-2, W-5, W-7 and W-8. The basic user charge is applied to other types of water delivered by Valley Water. There are two rates: one for agricultural water and one for municipal and industrial water.
- A treated water surcharge, which is associated with the benefit of receiving treated water, is levied in addition to the basic user charge on water delivered from Valley Water's water treatment plants.

Property Tax

Santa Clara County allocates property tax revenue to Valley Water from ad valorem taxes levied on land within the county.

Special Parcel Tax

In November 2020, voters in Santa Clara County overwhelmingly approved Measure S, a renewal of Valley Water's Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program) which was originally approved in 2012 (2012 Safe, Clean Water Program). The measure needed 66.67% to pass and garnered more than 75% of votes at the November 2020 election. The renewed Safe, Clean Water Program identifies six key community priorities, established in collaboration with tens of thousands of residents and stakeholders. The renewed Safe, Clean Water program became effective in Fiscal Year 2021-2022 (FY22), starting on July 1, 2021, following the conclusion of the 2012 Safe, Clean Water Program in FY21. The renewed Safe, Clean Water Program parcel tax will provide approximately $826 million in the first 15 years of the program.

Benefit Assessments

Benefit assessment revenue consists of levies approved by voters in 1986 and 1990 to support financing for flood control capital improvements. The ongoing budget amount is approximately 1.25 times the duly authorized annual debt service requirements for each watershed.

Capital Reimbursements

Capital reimbursement revenues are from local, state and federal partners for capital projects carried on cooperatively by Valley Water and its partners. Valley Water fronts the partners' shares of capital expenditures and receives reimbursements from the partners at a later time.

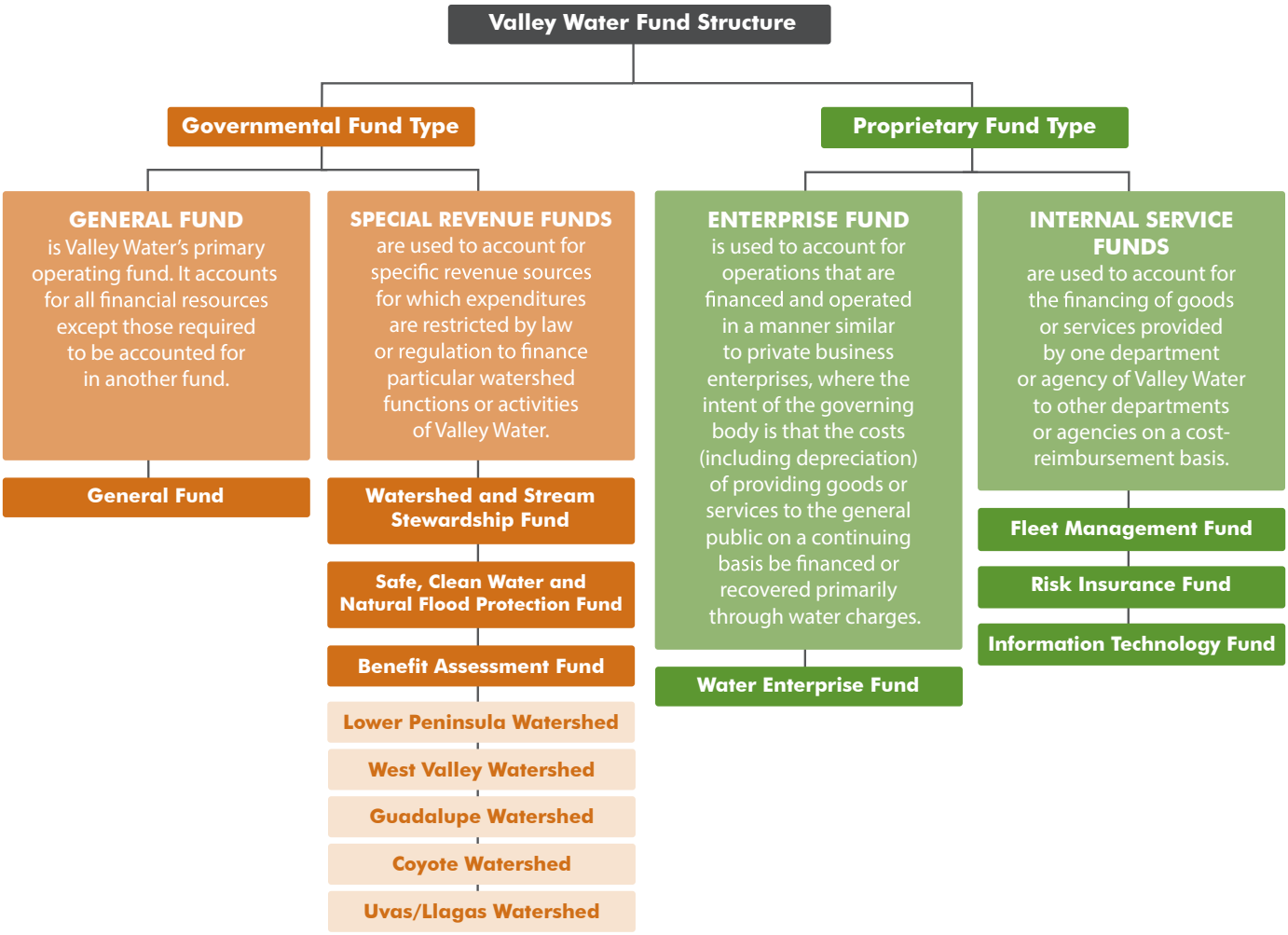
Interest

Interest is earned from Valley Water's investment portfolio.

Financial Planning and Summary

Valley Water Fund Structure

Valley Water's revenue sources are organized into eight funds. Each fund has specific revenue sources according to their intended purposes, and each fund is an independent accounting entity with a self-balancing set of accounts comprised of its assets, liabilities, fund equity, revenue, and expenditures or expenses, as appropriate.



Revenue by Fund ($K)

FUND NAME	FY21 Actual	FY22 Adopted	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32
Water Utility Enterprise	337,033	335,939	316,480	374,281	486,753	570,755	805,774	853,448	707,180	748,017	789,717	835,115
Watershed Stream Stewardship	107,677	123,410	137,297	143,484	129,849	126,869	125,330	129,199	133,883	138,235	142,843	147,591
Safe, Clean Water and Natural Flood Protection	56,888	56,226	102,842	115,419	53,651	54,498	55,091	55,683	56,540	57,533	58,665	60,006
Benefit Assessment	12,369	13,454	13,274	8,202	6,850	6,855	6,852	6,855	6,856	6,854	-	-
General	9,962	9,983	10,446	10,816	11,068	11,451	11,878	12,288	12,713	13,090	13,508	13,908
Internal Service	634	358	396	407	423	443	463	485	507	542	579	597
TOTAL	524,563	539,369	580,735	652,608	688,595	770,870	1,005,388	1,057,957	917,680	964,270	1,005,312	1,057,217

Note: Internal Service is the combination of the Fleet Management, Information Technology Fund, and Risk Funds

Financial Planning and Summary

Revenue Projections

Valley Water regularly updates the projected revenues based on the best information available.

- Revenues from water charges are estimated based on projections of water demand for residential, commercial, industrial, and agricultural consumption combined with rates per acre-foot. Rates are set at a level that will provide revenue needed to meet operating and capital needs.
- Revenues from property taxes, special parcel taxes, and benefit assessments are estimated based on projection of growth in assessed value and number of developed parcels in Santa Clara County.
- Interest earnings are estimated based on the projected average cash balances during the fiscal year and expected yield from Valley Water's investment portfolio.
- Revenues from capital partnerships are estimated based on the terms of agreements executed by Valley Water and its partners.

Expenditure Projections

Valley Water regularly updates operations and capital expenditures based on the best information available.

Each capital project cost estimate includes the yearly expenditures through completion based on the project's scope and schedule. The expenditures are monitored regularly and updated when necessary, for example, when there are any changes to a project's scope or schedule. A management review process is enforced to ensure only justified expenditure changes are approved.

Operations cost projections for the next 15 years are updated annually and are based on assumptions derived from Valley Water's strategic plans, including the impact of completed capital projects. Capital and operations expenditure projections are the foundation for the development of Valley Water's budget.

Financial Analysis

Valley Water regularly performs financial analysis to comply with the Board's Financial Planning/Budgeting Policy. Valley Water uses sophisticated financial models to perform the analysis for each fund. The projected operation expenditures, capital expenditures, and revenues for the next ten years are incorporated into the financial models to analyze the health of each fund under various economic scenarios. This process assures that funds will be available when needed to implement the CIP.

The financial analysis generates alternatives for funding capital projects based on the available yearly revenues from all sources allocated to the capital program, and the debt financing capacity of each fund. The financial analysis establishes the parameters within which the capital project schedule is developed.

Debt Projections and Debt Ratios

Debt is managed at Valley Water depending on the type of business involved. The Safe, Clean Water Program approved by the voters in 2012 and 2020 includes the authority to issue debt against future revenue in order to accelerate completion of projects sooner. Debt service on outstanding benefit assessment debt is funded by benefit assessments levied on property owners in the county.

The water utility business, on the other hand, uses a combination of short-term and long-term debt financing in conjunction with pay-as-you-go financing to lessen impacts to the water rates caused by fluctuations in capital funding needs. In the 1984 general election, Measure B was passed by the voters, which gave Valley Water's Water Utility Enterprise the authority to issue bonds on an "as required" basis. Debt service on outstanding debt is paid from water revenues. Bond covenants stipulate that Valley Water must maintain a 1.25 debt coverage ratio on all parity bonds. The long-term financial analysis targets a debt coverage ratio of 2.0, which helps establish the parameters for capital planning that ensure bond covenants will be met.

Valley Water currently enjoys credit ratings that are among the highest for a water-related government entity in the state of California, which helps keep interest costs borne by Valley Water at a minimum.

Relationship between the Operating Budget and CIP

Whenever Valley Water commits to capital improvements, there is a potential for associated long-range commitments of operating funds. For example, if 20-year bonds are issued to finance capital needs, then the operating funds will need to budget debt service payments for the next two decades. For this reason, it is important to evaluate capital commitments in the context of their long-range operating impact.

In addition to the long-range debt service payments, some capital projects affect future operating budgets either positively or negatively due to an increase or decrease in maintenance and operation costs. Such impacts vary widely from project to project and are evaluated individually during the project development stage. Valley Water is committing to a potential change in the operating budget when a capital project is approved.

The projected debt service payments and the positive or negative operating budget impacts are important factors considered in Valley Water's financial analysis.

This chart identifies the operating budget impacts to each fund from projected debt service payments. The debt service payment in the Watershed Stream Stewardship Fund is a total of payments associated with each individual watershed.

Debt Payment Schedule ($K)

Fund	FY22	FY23	FY24	FY25	FY26	FY27
General Fund	474	473	472	472	-	-
Benefit Assessment Fund	10,990	11,090	10,914	5,793	5,757	5,762
Safe, Clean Water and Natural Flood Protection Fund	917	7,050	10,292	15,795	17,785	16,693
Water Utility Enterprise Fund	38,975	52,561	60,167	77,136	98,469	118,843
Information Technology Fund	-	-	-	-	-	-
TOTAL	51,356	71,175	81,844	99,196	122,011	141,298

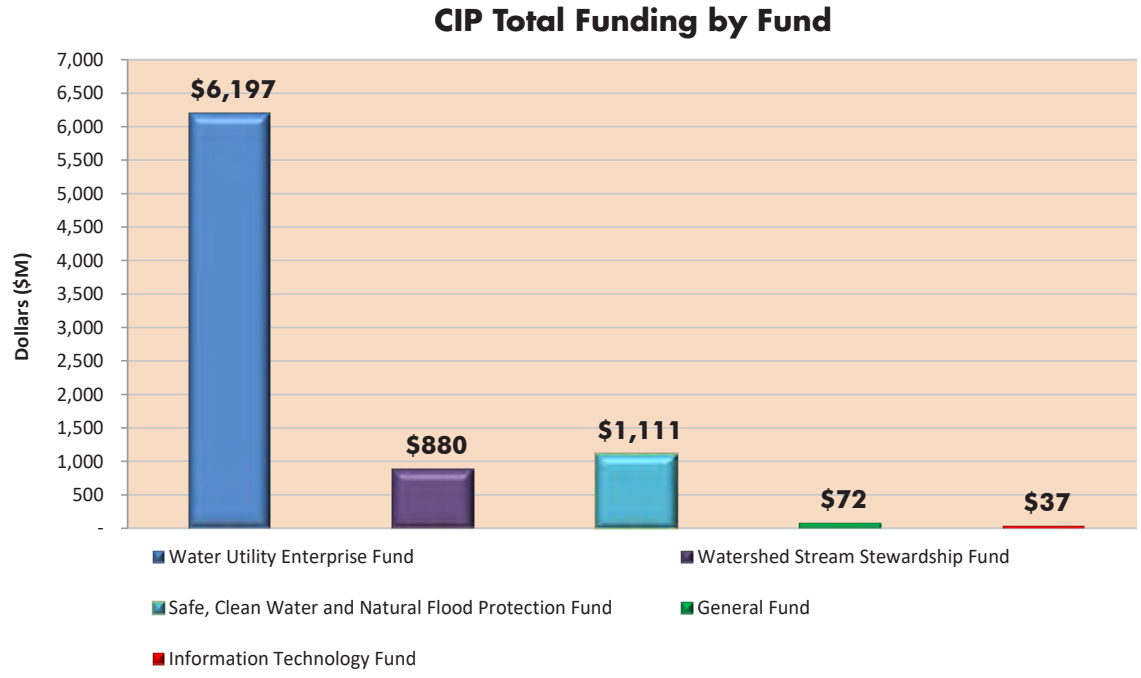
This chart identifies the net operating budget impacts to each fund resulting from annual maintenance and/or operating costs for newly completed capital projects. Additional information regarding operating impacts related to individual projects can be found on the project pages.

Estimated Operating Impacts ($K)

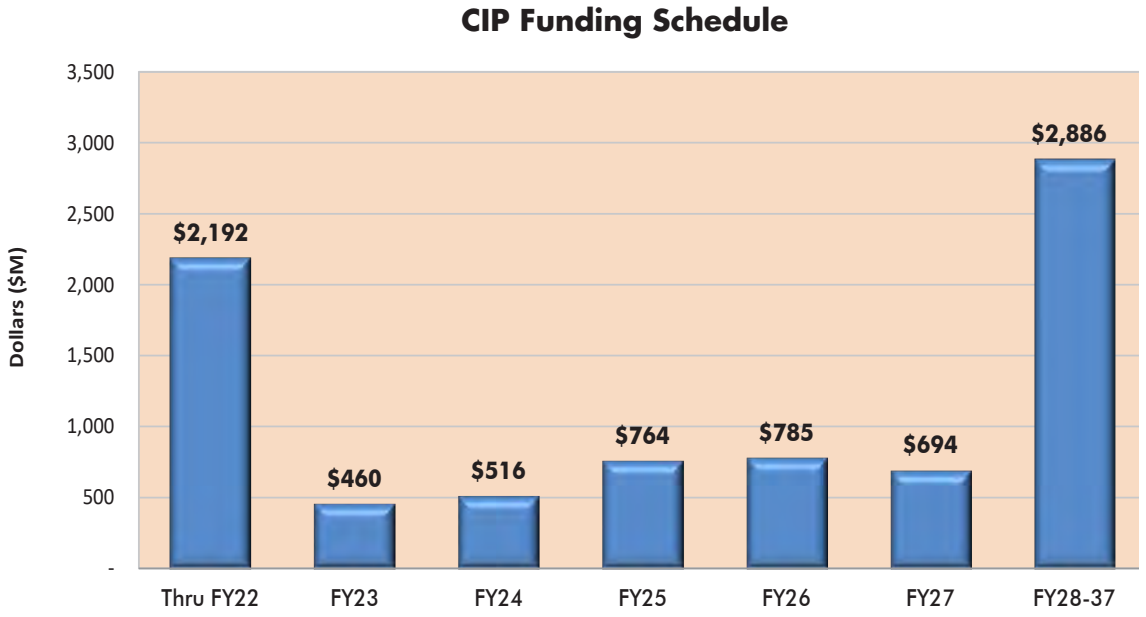
Fund	FY22	FY23	FY24	FY25	FY26	BEYOND
General Fund	-	-	-	-	-	-
Watershed Stream Stewardship Fund	508	749	(584)	(584)	(584)	(584)
Safe, Clean Water and Natural Flood Protection Fund	480	480	1,015	1,805	4,665	4,665
Water Utility Enterprise Fund	41	41	(219)	(149)	1,307	1,307
Information Technology Fund	-	179	184	190	196	201
TOTAL	1,029	1,449	396	1,262	5,584	5,589

CIP FUNDING SUMMARY

Of the $8.297 billion in total Valley Water funding for current and future projects, the Board appropriated $2.192 billion in prior years through June 30, 2022 (the end of fiscal year 2021-22). This year's CIP process identified additional funding needs of $6.105 billion to complete the projects in the CIP, with $460 million allocated in fiscal year 2022-23 and a total of $5.645 billion proposed for future years.



The needed $8.297 billion to implement the 64 capital projects as defined in the CIP are funded by five of Valley Water's funds.



This chart shows the funding schedule for the $8.297 billion to implement the 64 capital projects.

CIP Project Funding Schedule for Water Utility Enterprise Fund ($K)

PROJECT NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
Almaden Dam Improvements	14,772	-	558	-	-	-	271	436	49,234	64,713
Anderson Dam Seismic Retrofit (C1)	107,049	127,368	1	167,478	122,269	95,434	88,877	89,632	438,028	1,236,135
Calero and Guadalupe Dams Seismic Retrofits	34,712	1,970	4,338	-	1,038	12,806	25,538	25,699	152,329	254,092
Coyote Pumping Plant ASD Replacement	4,368	-	382	9,294	12,532	1,068	78	-	-	27,340
Coyote Warehouse	9,645	73	-	126	-	-	-	-	-	9,844
Dam Seismic Stability Evaluation	22,588	65	-	417	437	5,650	417	436	932	30,942
Small Capital Improvements, San Felipe Reach 1-3	n/a	4,517	-	6,181	2,251	996	107	3,778	64,589	82,419
Pacheco Reservoir Expansion Project (A1)	80,276	(8,450)	410	30,794	43,901	267,922	320,145	268,295	1,458,769	2,461,652
10-Year Pipeline Rehabilitation (FY18-FY27)	72,234	16,243	4,151	14,176	20,782	8,754	7,683	181	-	140,053
Almaden Valley Pipeline Replacement Project	668	841	915	79	1,566	2,659	2,164	2,915	99,707	110,599
Distribution System Master Plan Implementation	2,383	2,905	-	730	2,020	919	-	-	-	8,957
FAHCE Implementation	-	-	-	-	-	4,739	4,379	14,691	121,299	145,108
Pacheco/Santa Clara Conduit Right of Way Acquisition	3,334	1,659	1,453	847	211	-	-	-	-	6,051
SCADA Master Plan Implementation Project	1,365	2,384	1,255	1,571	1,150	-	-	-	-	6,470
Small Capital Improvements, Raw Water Transmission	n/a	2,572	-	1,010	1,112	4,607	239	-	3,408	12,948
Small Capital Improvements, Treated Water Transmission	n/a	131	-	297	302	114	50	-	306	1,200
Treated Water Isolation Valves	1,271	-	254	-	496	2,110	1,922	599	2,104	8,502
Vasona Pump Station Upgrade	3,113	715	1,465	922	16,963	555	-	-	-	22,268
PWTP Residuals Management	683	1,593	-	1,857	1,555	9,802	18,254	9,300	-	43,044
RWTP Residuals Remediation	56,484	5,351	5,501	18,397	191	-	-	-	-	80,423
RWTP Reliability Improvement	251,869	20,617	8,304	6,036	54,277	57,712	56,752	14,476	-	461,739
RWTP Treated Water Valves Upgrade	8,626	4	-	-	-	-	-	-	-	8,630
Small Capital Improvements, Water Treatment	-	10,911	-	4,509	8,059	3,204	3,403	5,316	19,331	54,733
STWTP Filter Media Replacement Project	647	2,813	1,078	5,593	5,280	-	-	-	-	14,333
Water Treatment Plant Electrical Improvement Project	642	884	-	2,412	5,695	1,993	-	-	-	11,626
WTP Master Plan Implementation	1,394	3,278	-	732	3,197	856	-	-	-	9,457
Expedited Purified Water Program (EPWP)	27,109	2,949	-	40,998	40,997	175,571	157,015	153,022	155,405	753,066
Land Rights - South County Recycled Water PL	203	350	-	3,260	3,145	-	-	-	-	6,958
South County Recycled Water Pipeline	36,805	15,310	9,153	7,306	425	-	-	-	-	59,846
FAHCE Stevens Creek Fish Passage Enhancement - 90%	765	-	-	-	-	1,620	2,659	41	-	5,085

FY 2021-22 Funds to be reappropriated

CIP Project Funding Schedule for Water Utility Enterprise Fund ($K) continued

PROJECT NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
Project 1 Design & Construction (e.g. Metcalf Ponds)	-	-	-	-	-	2,090	2,184	2,282	13,101	19,657
Project 2 Construction (e.g. Ogier Ponds)	-	-	-	-	-	-	-	-	28,293	28,293
WTP-WQL Network Equipment	2,908	204	-	1,274	2,456	1,000	274	130	3,009	11,255
TOTAL	745,913	217,257	39,218	326,296	352,307	662,181	692,411	591,229	2,609,844	6,197,438

FY 2021-22 Funds to be reappropriated

CIP Project Funding Schedule for Watershed and Stream Stewardship Fund ($K)

PROJECT NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
Palo Alto Flood Basin Tide Gate Structure Improvements	4,476	3,061	2,369	-	9,172	8,752	8,867	5,005	-	39,333
Permanente Creek, SF Bay to Foothill Expressway	17,363	450	-	337	-	-	-	-	-	18,150
San Francisquito Creek, SF Bay thru Searsville Dam	4,064	-	-	-	-	-	-	-	-	4,064
San Francisquito Creek, Early Implementation	1,614	-	-	-	-	-	-	-	-	1,614
Guadalupe River Tasman Dr - I-880	2,918	2,695	1,631	-	1,575	1,229	30,773	29,934	30,046	99,170
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Phs 1	50,191	-	3,261	-	-	-	-	-	-	50,191
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Phs 2	72,791	12,789	-	1,907	360	268	-	-	-	88,115
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Phs 3	-	-	-	-	-	-	2,015	2,024	61,331	65,370
Cunningham Flood Detention Certification	11,810	30	-	-	-	-	-	-	-	11,840
Lower Penitencia Ck Improvements, Berryessa to Coyote Cks.	19,032	7,686	14	8,150	82	86	89	-	-	35,125
Lower Silver Creek, I-680 to N. Babb Rd (Reach 4 Planning)	2,371	-	-	-	-	-	-	-	-	2,371
Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	97,173	26	-	52	-	-	-	-	-	97,251
Lower Silver Creek, I-680 to Cunningham, Reimbursable (Reach 4-6)	1,928	-	-	-	-	-	-	-	-	1,928
Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps	9,467	-	-	-	-	-	-	-	-	9,467
Upper Penitencia Ck, Coyote Ck-Dorel Dr, LERRDs	2,309	-	-	-	-	-	-	-	-	2,309
Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	6,947	-	2,633	-	-	3,035	3,360	374	-	13,716
San Francisco Bay Shoreline	60,986	21,632	2,325	15,892	17,739	114	119	-	-	116,482
San Francisco Bay Shoreline - Contribution	490	-	-	-	-	-	-	-	-	490
Shoreline Early Implementation	359	-	-	-	-	-	-	-	-	359
Watersheds Asset Rehabilitation Program	39,362	10,911	623	6,741	8,138	6,487	6,697	9,602	86,074	174,012
FAHCE Stevens Creek Fish Passage Enhancement - 10%	85	-	-	-	-	180	295	5	-	565
Stevens Creek Fish Barrier Removal - 100%	-	-	-	-	-	543	3,427	3,540	5,724	13,234
Project 2 Construction (e.g. Ogier Ponds)	-	-	-	-	-	-	-	-	18,293	18,293
Calabazas/San Tomas Aquino Creek-Marsh Connection	5,252	2,015	1	751	1,610	1,592	1,033	161	7	12,421
Watershed Habitat Enhancement Studies	4,099	-	363	-	-	-	-	-	-	4,099
TOTAL	415,087	61,295	13,220	33,830	38,676	22,286	56,675	50,645	201,475	879,969

FY 2021-22 Funds to be reappropriated

Project Funding Schedule for Safe, Clean Water and Natural Flood Protection Fund ($K)

IRP2 Additional Line Valves (A3)	2,278	344	-	1,220	3,458	3,526	3,370	2,155	200	16,551
Permanente Creek, SF Bay to Foothill Expressway	94,918	-	885	-	56	-	-	-	-	94,974
San Francisquito Creek, SF Bay thru Searsville Dam (E5)	6,682	-	77	-	-	-	-	-	-	6,682
San Francisquito Creek - Construction, SF Bay to Middlefield Road (E5)	50,662	12,821	13,066	-	26,586	16,189	388	405	121	107,172
Sunnyvale East and West Channels (E2)	37,471	-	14,034	931	13,583	11,598	6,551	249	-	70,383
Guadalupe Rv–Upper, Fish Passage Mods	2,651	-	-	-	-	-	-	-	-	2,651
Guadalupe Rv–Upper, I-280 to SPRR (Rch 6) (E8)	34,704	563	1	30	33	34	36	37	2,863	38,300
Guadalupe Rv–Upper, SPRR-Blossom Hill (Rch 7-12) (E8)	89,399	-	20,134	-	-	-	-	18,349	18,435	126,183
Guadalupe Rv–Upper, Actuals chg to other proj numbers	7,887	-	-	-	-	-	-	-	-	7,887
Berryessa Ck, Calaveras-I-680 - Corps	35,594	-	11,670	-	769	-	-	-	-	36,363
Berryessa Ck, Calaveras-I-680 - Reimbursable	17,666	-	-	-	-	-	-	-	-	17,666
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Phs 3 (Design and Planning) (E3)	-	-	-	-	-	-	-	-	8,906	8,906
Coyote Creek, Montague Expressway to Tully Road (E1)	17,235	2,845	-	6,373	10,790	21,805	3,781	-	-	62,829
Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps (E4)	8,617	2,636	6,579	-	-	-	1,460	3,963	4,371	21,047
Llagas Creek–Upper, Reimbursable (E6b)	45,040	3,048	60	-	-	6	-	-	-	48,094
Llagas Creek–Upper, Corps Coordination (E6a)	96,864	58,305	13	55,549	32,621	9,255	298	-	-	252,892
Llagas Creek–Upper, Technical Studies	1,446	-	-	-	-	-	-	-	-	1,446
Llagas Creek–Upper, Design (E6)	28,193	-	3,531	-	-	25	1,133	-	-	29,351
San Francisco Bay Shoreline - EIA 11 Design & Partial Construction (E7)	17,516	-	-	-	-	-	-	-	-	17,516
San Francisco Bay Shoreline - EIAs 1-4	4,287	1,359	-	1,760	2,829	1,170	6,201	6,480	6,772	30,858
San Francisco Bay Shoreline - EIAs 5-10	-	1,045	-	1,045	1,092	3,423	3,578	3,739	-	13,922
Hale Creek Enhancement Pilot Study (D6.1)	5,023	3,824	2,930	72	11	34	-	-	-	8,964
Almaden Lake Improvements (D4.2)	7,417	9,531	-	20,855	19,092	742	30	31	33	57,731
South Bay Salt Ponds Restoration (D8)	548	-	-	-	-	-	-	-	-	548
SCW Fish Passage Improvements (D4.3; Evelyn,Singleton)	5,328	980	176	16	-	-	-	-	-	6,324
Bolsa Road Fish Passage Improvement (D6.2)	-	2,205	-	4,170	27	29	89	-	-	6,520
SCW Implementation: Fish Passage Improvements (D4)	-	-	-	-	-	2,127	1,184	1,000	2,502	6,813
SCW Implementation: Restoration of Natural Creek Functions (D6.3)	-	-	-		-	-	-	3,115	3,256	6,371
Ogier Ponds Separation from Coyote Creek (D4.1)	1,598	1,051	1,116	113	1,936	1,547	-	-	-	6,245
TOTAL	619,024	100,557	74,272	92,134	112,883	71,510	28,099	39,523	47,459	1,111,189

FY 2021-22 Funds to be reappropriated

Financial Planning and Summary

Project Funding Schedule for General Fund ($K)

PROJECT NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
Facility Management, Small Capital Improvements	n/a	4,000	-	4,000	4,000	4,000	4,000	4,000	16,000	40,000
Security Upgrades and Enhancements	-	-	-	314	328	338	349	7,025	8,216	16,570
Headquarters Operations Building	20	2,000	-	2,080	6,361	2,282	2,385	-	-	15,128
TOTAL	20	6,000	-	6,394	10,689	6,620	6,734	11,025	24,216	71,698

FY 2021-22 Funds to be reappropriated

Project Funding Schedule for Information Technology Fund ($K)

PROJECT NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
Data Consolidation	1,157	75	738	-	-	40	-	-	-	1,272
IT Disaster Recovery	2,396	206	81	-	3	-	-	-	-	2,605
ERP System Implementation	16,865	519	-	237	-	-	-	-	-	17,621
Software Upgrades & Enhancements	4,055	345	-	1,234	1,258	1,104	741	2,015	3,236	13,988
Telephone System Voiceover IP	1,248	-	-	-	-	-	-	-	-	1,248
TOTAL	25,721	1,145	819	1,471	1,261	1,144	741	2,015	3,236	36,734

FY 2021-22 Funds to be reappropriated

CIP Funding Schedule Summary for All Funds ($K)

FUND NAME	Through FY21	FY22	FY22 Unspent	FY23	FY24	FY25	FY26	FY27	FY28-37	TOTAL
Water Utility Enterprise	745,913	217,257	39,218	326,296	352,307	662,181	692,411	591,229	2,609,844	6,197,438
Watershed Stream Stewardship	415,087	61,295	13,220	33,830	38,676	22,286	56,675	50,645	201,475	879,969
Safe, Clean Water and Natural Flood Protection	619,024	100,557	74,272	92,134	112,883	71,510	28,099	39,523	47,459	1,111,189
General	20	6,000	-	6,394	10,689	6,620	6,734	11,025	24,216	71,698
Information Technology	25,721	1,145	819	1,471	1,261	1,144	741	2,015	3,236	36,734
TOTAL	1,805,765	386,254	127,529	460,125	515,816	763,741	784,660	694,437	2,886,230	8,297,028

FY 2021-22 Funds to be reappropriated

Appendices

Appendix A - Valley Water Partnership Summary

Partnership Reimbursements are funds that are reimbursed by Valley Water's partners after Valley Water advances the needed funds. The following table identifies capital projects that are funded cooperatively with Valley Water's partners through reimbursements.

Partnership Reimbursement ($K)

FY 2023-37 Planned Capital Reimbursement Schedule

Project Number	Project Name	Agency	Claims On-hand (02/03/22)	Actuals Thru FY21	FY22	FY23	FY24	FY25	FY26	Future	Total
91214010	**Small Capital Improvements, San Felipe - Rch 1**	**Total**	**0**	**2,902**	**471**	**496**	**841**	**41**	**217**	**14,261**	**19,229**
		San Benito Water Dist		2,902	471	496	841	41	217	14,261	19,229
91954002	**Pacheco Reservoir Expansion Project**	**Total**	**0**	**11,485**	**4,691**	**4,249**	**3,775**	**26,282**	**35,870**	**410,312**	**496,664**
		California Water Commission		11,485	4,691	4,249	3,775	26,282	35,870	410,312	496,664
92144001	**Pacheco/Santa Clara Conduit ROW Acquisition**	**Total**	**0**	**19**	**0**	**0**	**0**	**0**	**0**	**0**	**19**
		San Benito Water Dist		19						0	19
92374005	**SCADA Remote Architecture & Comm. Upg**	**Total**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
		San Benito Water Dist		0						0	0
91094007s	**South County Recycled Water Pipeline**	**Total**	**0**	**2,106**	**490**	**2,560**	**2,650**	**0**	**0**	**0**	**7,806**
		SCRWA		811						0	811
		USBR - ARRA		1,295						0	1,295
		USBR - Title 16		0	490	2,560	2,650	0		0	5,700
26154001s	**Guadalupe River–Upper, I-280 - Blossom Hill Rd.**	**Total**	**1,682**	**33,455**	**0**	**0**	**0**	**0**	**0**	**0**	**33,455**
		State Subventions	931	28,864						0	28,864
		City of San Jose	751	4,591						0	4,591
26174041s	**Berryessa Ck, Calaveras Bvd to I-680**	**Total**	**882**	**10,288**	**826**	**826**	**0**	**0**	**0**	**0**	**11,940**
		State Subventions	882	288	826	826				0	1,940
		DWR - Prop 1E		10,000						0	10,000
40174004	**Berryessa Ck, Lwr Penitencia Ck - Calaveras Blvd.**	**Total**	**0**	**12,494**	**0**	**0**	**0**	**0**	**0**	**0**	**12,494**
		DWR - Prop 1E		12,494						0	12,494
40264011	**Cunningham Flood Detention Certification**	**Total**	**0**	**3,718**	**0**	**0**	**0**	**0**	**0**	**0**	**3,718**
		DWR - Prop 1E		1,000						0	1,000
		NRCS		2,718	0					0	2,718
40334005	**Lwr Penitencia Ck Imp, Berryessa to Coyote Cks.**	**Total**	**0**	**5,000**	**0**	**0**	**0**	**0**	**0**	**0**	**5,000**
		DWR - Prop 1E	0	5,000						0	5,000
40264008s	**Lwr Silver Ck, I-680 to Cunningham, Rchs 4-6**	**Total**	**0**	**53,055**	**0**	**0**	**0**	**0**	**0**	**0**	**53,055**
		State Subventions		8,009						0	8,009
		DWR - Prop 1E		24,000						0	24,000
		NRCS-ARRA		20,676						0	20,676
		City of San Jose		370						0	370
50284010	**Llagas Ck–Lwr, Capacity Restoration**	**Total**	**0**	**120**	**0**	**0**	**0**	**500**	**500**	**0**	**1,120**
		State Subventions		120	0			500	500	0	1,120
26174051s	**Llagas Creek–Upr, Buena Vista to Wright**	**Total**	**5,662**	**29,781**	**6,734**	**1,000**	**1,000**	**0**	**0**	**0**	**38,515**
		State Subventions	5,662	25,691	6,734	1,000	1,000			0	34,425
		City of Morgan Hill		4,090						0	4,090
26244001	**Permanente Creek, SF Bay to Foothill Expway**	**Total**		**1,023**	**0**	**0**	**0**	**0**	**0**	**0**	**1,023**
		Cities of Mountain View and Los Altos		1,023						0	1,023
10284007s	**San Francisquito Creek, SF Bay - Searsville Dam**	**Total**	**0**	**5,558**	**0**	**0**	**0**	**0**	**0**	**0**	**5,558**
		JPA Member Agencies		4,520						0	4,520
		JPA (Joint Powers Authority)	**0**	1,038						0	1,038
26444001	**San Francisco Bay Shoreline**	**Total**		**11,372**	**0**	**0**	**0**	**0**	**0**	**0**	**11,372**
		SFBRA Measure AA (Grant)		11,372							11,372
00044026	**San Francisco Bay Shoreline**	**Total**		**8,736**	**19,400**	**27,985**	**30,300**	**12,174**	**4,834**	**0**	**103,429**
		SFBRA Measure AA (Grant)		7,905	11,400	11,400	11,400	11,400		0	53,505
		SFBRA Measure AA (Ballot Reimbursement)		831						0	831
		State Subventions		0	8,000	16,585	18,900	774	4,834	0	49,093
26444002	**San Francisco Bay Shoreline**	**Total**		**420**	**0**	**0**	**0**	**0**	**0**	**0**	**420**
		State Bond - DWR		420							420
62084001	**Watersheds Asset Rehabilitation Program**	**Total**		**442**	**0**	**0**	**0**	**0**	**0**	**0**	**442**
		City of Palo Alto		442						0	442
	SUBTOTAL - Reimbursements from Current Projects		**8,226**	**191,974**	**32,612**	**37,116**	**38,566**	**38,997**	**41,421**	**424,573**	**805,259**

Appendix A - Valley Water Partnership Summary

Partnership Reimbursement ($K) (cont'd)

Pending Reimbursements for Closed Projects			Claims	Actuals							
Project Number	Project Name	Agency	On-hand (09/14/21)	Thru FY21	FY22	FY23	FY24	FY25	FY26	Future	Total
91214001	**Pacheco Conduit Inspection & Rehabilitation**	**Total**	**12**	**1,488**	**0**	**0**	**0**	**0**	**0**	**0**	**1,488**
		San Benito Water Dist	12	1,488						0	1,488
91244001	**Wolfe Road Recycled Water Pipeline**	**Total**	**0**	**12,201**	**0**	**0**	**0**	**0**	**0**	**0**	**12,201**
		Apple Computer		4,800						0	4,800
		Cal Water		1,500						0	1,500
		City of Sunnyvale		2,101						0	2,101
		DWR - Prop 84		3,800						0	3,800
94384002	**Penitencia Delivery Main Seismic Retrofit**	**Total**	**0**	**5,107**	**0**	**0**	**0**	**0**	**0**	**0**	**5,107**
		Department of Water Resources (A3904)		5,107						0	5,107
92224001	**Penitencia Force Main Seismic Retrofit**	**Total**	**0**	**3,884**	**0**	**0**	**0**	**0**	**0**	**0**	**3,884**
		Department of Water Resources (A3904)		3,884						0	3,884
91184008	**Silicon Valley Advanced Water Purification Ctr**	**Total**	**0**	**22,046**	**0**	**0**	**0**	**0**	**0**	**0**	**22,046**
		City of San Jose		8,500						0	8,500
		DWR - Prop 50		2,935						0	2,935
		DWR - Prop 84		2,486						0	2,486
		USBR - ARRA		8,125						0	8,125
30154013s	**Guadalupe River–DT, I-880 to I-280**	**Total**	**500**	**39,480**	**0**	**0**	**0**	**0**	**0**	**0**	**39,480**
		State Subventions	500	27,618						0	27,618
		City of San Jose		1,654						0	1,654
		San Jose Redev Agency		10,208						0	10,208
	SUBTOTAL - Reimbursements for Closed Projects		**500**	**84,206**	**0**	**0**	**0**	**0**	**0**	**0**	**84,206**
	TOTAL REIMBURSEMENTS		**8,726**	**276,180**	**32,612**	**37,116**	**38,566**	**38,997**	**41,421**	**424,573**	**889,465**

Appendix A - Valley Water Partnership Summary

Partnership Funding is funds that are made available by Valley Water's partners, when needed. The following table identifies capital projects that receive partnership funding. This may occur through either cost sharing agreements or as in-kind services.

Partnership Funding

Project Number	Project Name	Amount ($K)	Partnering Agency
26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	13,600	U.S. Army Corps of Engineers
26154001s	Guadalupe River–Upper, Interstate 280 to Blossom Hill Road	188,000	U.S. Army Corps of Engineers
26174051s	Llagas Creek–Upper, Buena Vista Road to Wright Avenue	65,000	U.S. Army Corps of Engineers
00044026s	San Francisco Bay Shoreline	91,250	USACE, Coastal Conservancy, US Fish & Wildlife, CA Wildlife Conservation, Packard-Hewlett-Goldman-Moore Foundations
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	3,000	U.S. Army Corps of Engineers
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	11,040	San Francisquito Joint Powers Authority (DWR)
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	1,500	County of San Mateo
40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	102,720	U.S. Army Corps of Engineers
	TOTAL	$ 476,110	

Appendix A - Valley Water Partnership Summary

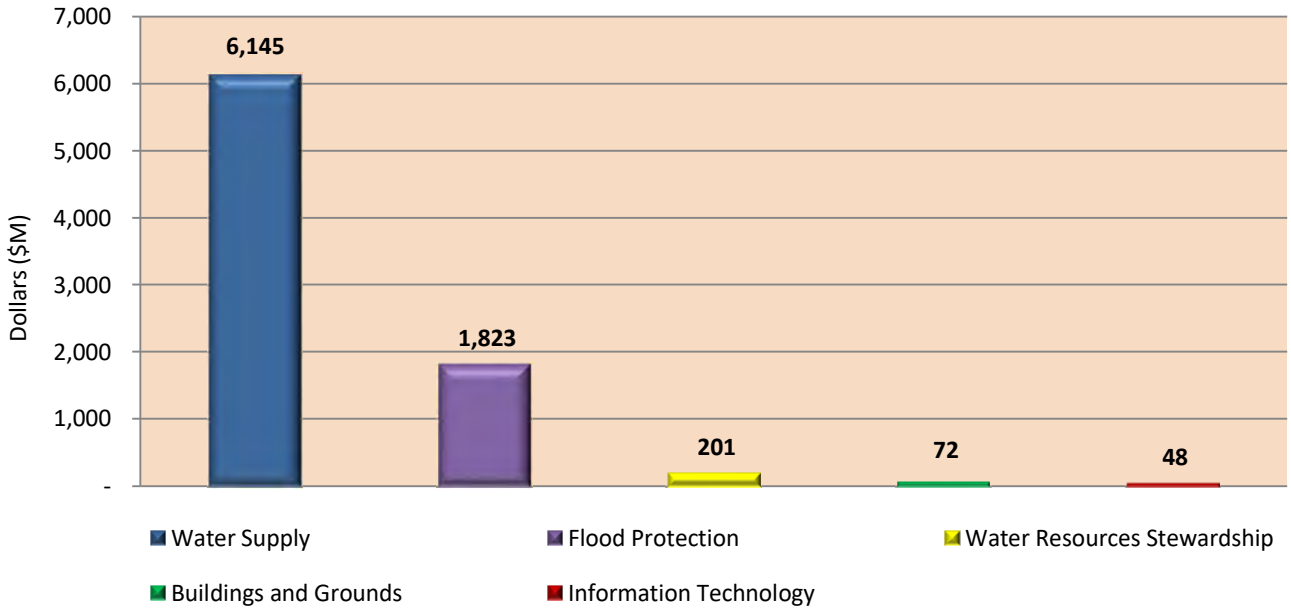
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Appendix B - Summary of Capital Expenditures

Expenditure Schedule by Type of Improvement ($K)

	THRU FY21 (Actuals)	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33-37	TOTAL
Water Supply	664,438	258,259	357,837	353,879	661,377	690,806	590,968	582,180	423,611	497,832	489,234	369,799	204,726	6,144,946
Flood Protection	899,547	159,934	128,990	149,975	86,713	88,443	88,729	91,097	34,144	31,309	12,979	14,022	37,369	1,823,251
Water Resources Stewardship	25,659	19,236	30,201	22,676	10,504	10,901	10,175	17,052	17,898	9,266	13,286	13,707	-	200,561
Buildings and Grounds	20	6,000	6,394	10,689	6,620	6,734	11,025	12,216	4,000	4,000	4,000	-	-	71,698
Information Technology	21,553	7,606	3,148	4,130	2,147	1,015	2,145	2,190	819	1,147	1,169	920	-	47,989
TOTAL	1,611,217	451,035	526,570	541,349	767,361	797,899	703,042	704,735	480,472	543,554	520,668	398,448	242,095	8,288,445

CIP Expenditures by Type of Improvement

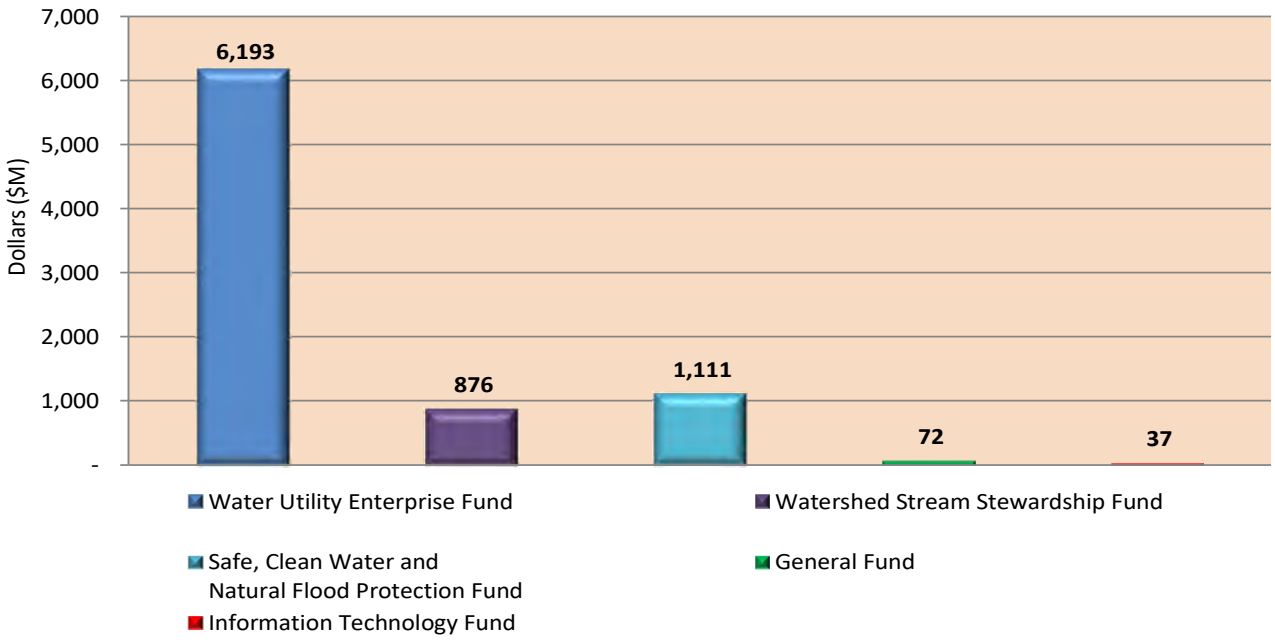


Appendix B - Summary of Capital Expenditures

Expenditure Schedule by Fund ($K)

	THRU FY21 (Actuals)	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33-37	TOTAL
Water Utility Enterprise Fund	665,919	258,033	357,891	352,877	662,561	692,553	591,266	591,092	437,117	505,565	495,991	377,094	204,726	6,192,685
Watershed Stream Stewardship Fund	383,926	79,237	41,443	40,479	22,575	56,675	50,645	66,018	33,816	32,681	19,622	20,099	29,239	876,455
Safe, Clean Water and Natural Flood Protection Fund	542,822	100,248	118,968	135,630	74,458	41,196	48,091	34,563	5,230	761	-	776	8,130	1,110,873
General Fund	20	6,000	6,394	10,689	6,620	6,734	11,025	12,216	4,000	4,000	4,000	-	-	71,698
Information Technology	18,530	7,517	1,874	1,674	1,147	741	2,015	846	309	547	1,055	479	-	36,734
TOTAL	1,611,217	451,035	526,570	541,349	767,361	797,899	703,042	704,735	480,472	543,554	520,668	398,448	242,095	8,288,445

CIP Expenditures by Fund



Appendix C - Safe Clean Water Project Schedules

The following tabel is an overview schedule for Safe, Clean Water Capital Projects identified in the FY 2023-27 CIP. Detailed information for each project can be found in this document in their respective chapters in the order presented in this table.

Safe, Clean Water Capital Improvement Project Schedules

Project Number	PROJECT NAME	FY05 - FY09	FY10 - FY14	FY15 - FY19	FY20 - FY24	FY25 - FY29	FY30 - FY34
	WATER SUPPLY						
91864005	Anderson Dam Seismic Retrofit (C1)						
26764001	IRP2 Additional Line Valves (A3)						
	FLOOD PROTECTION						
26244001	Permanente Creek, SF Bay to Foothill Expressway						
26284001	San Francisquito Creek, SF Bay thru Searsville Dam (E5)						
26284002	San Francisquito Creek - Construction, SF Bay to Middlefield Road (E5)						
26074002	Sunnyvale East and West Channels (E2)						
26154002	Guadalupe Rv–Upper, I-280 to SPRR (Reach 6) (E8)						
26154003	Guadalupe Rv–Upper, SPRR-Blossom Hill (Reaches 7-12) (E8)						
26174043	Coyote Creek, Montague Expressway to Tully Road (E1)						
26324001	Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps (E4)						
26174051	Llagas Creek–Upper, Reimbursable (E6b)						
26174052	Llagas Creek–Upper, Corps Coordination (E6a)						
26174054	Llagas Creek–Upper, Design (E6)						
00044026	San Francisco Bay Shoreline						
26444001	San Francisco Bay Shoreline - EIA 11 Design & Partial Construction (E7)						
26444002	San Francisco Bay Shoreline - EIAs 1-4						
26444004	San Francisco Bay Shoreline - EIAs 5-10						
	WATER RESOURCES STEWARDSHIP						
26044001	Almaden Lake Improvements (D4.2)						
26164001	Hale Creek Enhancement Pilot Study (D6)						
26044002	Bolsa Road Fish Passage Improvements (D6.2)						
26044003	SCW Ogier Ponds Separation (D4.1)						

*Safe, Clean, Water (SCW) and Capital Improvement Program (CIP) schedules may vary slightly due to the definition of project completion by each program.

Legend

- Planning Phase
- Design Phase
- Construction Phase
- Close-out Phase

Appendix C - Safe Clean Water Project Schedules

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Appendix D - Glossary

Ad Valorem Tax
A tax based on value (e.g., a property tax).

Appropriation
An appropriation is a legal authorization granted by the Santa Clara County Board of Supervisors which allows Valley Water to expend cash and incur obligations for specific purposes. An appropriation is usually limited in amount and the time it may be expended.

Assessment
The process of setting the official valuation of property for taxation; the valuation placed upon property as a result of this process.

Asset
A probable future economic benefit obtained or controlled by a particular entity as a result of past transactions or events. Examples of assets are cash, receivables, and equipment.

BAO Board Appointed Officer

Benefit Assessment
Determination of the benefits derived from Valley Water activities within particular watersheds and levying a proportionate share of taxes to each parcel subject to voter-approved limitations.

Bonds
Bonds are a long-term source of debt that provides a source of borrowed monies that can be used to pay for specific capital facilities. Bonds are a written promise to pay a specified sum of money at a predetermined date or dates in the future, called the maturity date(s), together with periodic interest at a specific rate.

Capital Expenditure
Capital expenditures fall into several categories. In general, they should create assets or extend the useful lives of existing assets. The work product results in a long-term benefit greater than two years and for budgeting purposes involved a major expenditure of Valley Water resources greater than $50,000. They can be made with regard to tangible and intangible assets. The general categories of capital expenditures are: rehabilitation, major repairs, improvements/betterments/upgrades, replacements, expansions/additions, and ancillary expenditures.

Capital Projects
Projects are budgeted within the Capital budget and fall within the definition of Capital Expenditures; which means they (1) create or extend the life of an asset, (2) their work products have a useful life of greater than two years, and (3) they involve an expenditure of Valley Water resources in excess of $50,000.

Certificates of Participation (COPs)
A security in the general form of a bond, which evidences a proportionate participation in a flow of lease or other payments between two parties.

CEQA California Environmental Quality Act

CFS Cubic Feet-Per-Second

CIP Capital Improvement Program

Clean, Safe Creeks/CSC
In November 2000, Santa Clara County voters approved the special parcel tax, the Clean, Safe Creeks and Natural Flood Protection Plan (Clean, Safe Creeks) to address community needs for enhanced stream stewardship and flood protection. The 15-year Clean, Safe Creeks Plan was replaced in its entirety by the Safe, Clean Water and Natural Flood Protection Program, which voters approved in 2012 (2012 Safe, Clean Water).

Cost Center
Cost Centers are separate financial accounting centers in which costs are accumulated because of legal and accounting requirements, the first two digits of a project number identifies the cost center.

COVID-19 Disease caused by novel coronavirus, which caused a pandemic in 2020.

DPR Direct Potable Reuse

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DSOD California Division of Safety of Dams

DWR State Department of Water Resources

EIR Environmental Impact Report

Encumbrances
Commitments related to unperformed (executory) contracts for goods or services. Encumbrances represent the estimated amount of expenditures that will result if unperformed contracts in process are completed.

Enterprise Fund
Enterprise Funds are used to account for operations including debt service (a) that are financed and operated in a manner similar to private business, where the intent of the government body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a accounting basis is financed or recovered primarily though user charges; or (b) where the governing body has determined that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control accountability, or other purposes.

ERP Enterprise Resource Planning

Expenditure/Expense
Decreases in net financial resources. Expenditures include current operating expenses requiring the present or future of net current assets, debt service and capital outlays, and intergovernmental grants, entitlements, and shared revenues. The major expenditure categories used by Valley Water are labor and overhead, land and structures, equipment, and debt service.

Facility
Defined as a creek, reservoir, dam, water treatment plant, pipeline, canal, etc.

FAHCE Fisheries and Aquatic Habitat Collaborative Effort

FERC Federal Energy Regulatory Commission

Fixed Assets
Fixed Assets are defined as long-lived tangible assets such as automobiles, computers and software, furniture, communications equipment, hydrologic equipment, office equipment, and other equipment, with a value of $2,000 or more, or the combined value of like or related units (aggregate value) is greater than $5,000 if the unit value is less than $2,000.

Fiscal Year
A 12-month period to which the annual operating budget applies and at the end of which a government determines its financial position and the results of its operations. Valley Water's fiscal year is July 1 through June 30.

FOCP Federal Energy Regulatory Commission Order Compliance Project

Fund
A fiscal and accounting entity with a self-balancing set of accounts in which cash and other financial resources, all related liabilities and residual equities, or balances, and changes therein, are recorded and segregated to carry on specific activities or attain certain objectives in accordance with special regulations, restrictions or limitations.

General Fund
A fund used to account for major operating revenues and expenditures, except for those financial transactions that are required to be accounted for in another fund. General Fund revenues are derived primarily from property and other taxes.

Grants
Contributions or gifts of cash or other assets from another government entity to be used or expended for a specified purpose, activity, or facility.

HVAC Heating, Ventilation, and Air Conditioning

IPR Indirect Potable Reuse

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JPA Joint Power Authority

KPI

Each project under the Safe, Clean Water Program has Key Performance Indicators (KPIs) that define the deliverables that are Valley Water's commitment to the voters. Safe, Clean Water Projects may have multiple KPIs and each KPI may result in separate or multiple projects within the Capital Improvement Program.

Levy

(1. Verb) To impose taxes, special assessments, or service charges for the support of government activities; (2. Noun) The total amount of taxes, special assessments, or service charges imposed by a government agency.

Long-Term Debt

Debt with a maturity date of more than one year after the date of issuance.

Measure S

In November 2020, voters in Santa Clara County overwhelmingly approved Measure S, a renewal of Valley Water's Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program) that voters had approved in 2012. Unlike the first two special parcel taxes, which were set to sunset in 15-years from the date of implementation, the renewed Safe, Clean Water Program will continue until repealed by voters or until the Board determines the funding is no longer needed.

MGD Million Gallons per Day

One-Percent Flood or 100-Year Flood

Has a 1% chance of occuring in a given year. Valley Water projects are usually designed for the 1% flood, a national standard established by the Federal Emergency Management Agency (FEMA).

Operating Expenditure

Operating expenditures are system costs required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services.

Operating expenditures are costs necessary to maintain the systems in good operating condition. This includes the repair and replacement of minor property components. The American Waterworks Association (AWWA) says that these priority components should be smaller than a retirement unit; a retirement unit is a readily separable and separately useful item that is part of a larger assembly. The benefit and life of such repairs should be less than two years. Any repairs that recur on an annual basis are considered operating activities of a maintenance nature.

Operating expenditures are often separated into fixed and variable costs for purposes of understanding operating leverage and structuring service charge rates.

Operations

Expenditures required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services. Operations include work that is generally of an ongoing or recurring nature. Any Valley Water work that is not a project is, by definition, an Operation. Operations, although recurring, require close coordination and a high degree of management oversight; however, they can be accomplished without the application of the full range of tools and processes used for managing projects.

P3 Public Private Partnership

Projects

At Valley Water, a project is any undertaking which has (1) a beginning and an ending, and (2) is a one-time occurrence. Projects can require expenditure of capital or operating funds and, at Valley Water, are called Capital or Operating Projects, accordingly. Project usually, but not always, relate to a Valley Water facility or facilities (a creek, a reservoir, a dam, a water treatment plant, a pipeline,, etc.). Projects may include studies, design, construction, maintenance, or implementation of systems such as Records Management or Financial Management System.

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Revenue
Monies Valley Water receives in exchange for services or sales provided. Revenue items include water sales, property tax revenues, benefit assessment revenues, interest income, intergovernmental reimbursement, and other.

Revenue Bonds
Bonds, whose principal and interest are payable exclusively from earnings of an enterprise fund. In addition to a pledge of revenues, such bonds sometimes contain a mortgage on the enterprise fund's property.

Reserve
An account used to indicate that a portion of a fund's assets are legally restricted for a specific purpose and is, therefore, not available for general appropriation.

SCADA
Supervisory Control and Data Acquisition

SCRWA
South County Regional Wastewater Authority

Safe, Clean Water/SCW
In November 2012, Santa Clara County voters approved the Safe, Clean Water and Natural Flood Protection Program (2012 Safe, Clean Water) to address water supply, flood protection and environmental stewardship priorities. In 2020, voters approved the renewal of the Safe, Clean Water Program, replacing the 2012 Safe, Clean Water Program in entirety and is set to begin in FY 2021-22. Unlike the first two special parcel taxes, which were set to sunset in 15-years from the date of implementation, the renewed Safe, Clean Water Program will continue until repealed by voters or until the Board determines the funding is no longer needed.

SMP Stream Maintenance Program

WTP Water Treatment Plant

WQL Water Quality Lab



Valley Water

Clean Water • Healthy Environment • Flood Protection

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